

SEQUENCE LISTING

<110> Salceda, Susana
 Macina, Roberto
 Hu, Ping
 Recipon, Herve
 Karra, Kalpana
 Cafferkey, Robert
 Sun, Yongming
 Liu, Chenghua

<120> Compositions and Methods Relating to Ovarian Specific Genes and Proteins

<130> DEX-0315

<150> 60/268,290

<151> 2001-02-13

<150> 60/268,834

<151> 2001-02-15

<160> 129

<170> PatentIn version 3.1

<210> 1

<211> 829

<212> DNA

<213> Homo sapien

<400> 1

```

cgtggtcgcg gcgaggtaca agcttttttt tttttttttt tttttttttt ggcaaaaaaa      60
aataggctcc gttttatttt cttccattgg atccaatggg catctttttg aaagcctgtc      120
tgtgtgccaa cccttcccc aaaggaggtt atctcaggtg ggtggagcca agttctcacg      180
gggtggaaag gagaccgtgg acacacacaa gagaagaacc tccaaagccc tcctccatta      240
tgtggcagag aattcaacgc tgggcgtacc tcagtggctc aatagcgtgt ctccgtggtg      300
ctgacaattg tcgtacctcc gcctcacaat tctcccacca aacaaaaata tgtgacacaa      360
acacgcagcc aggggcgagc ccgaccgacg cccgcaaggc tcggcgccca aaatcacgcg      420
gaccccgacc agcgccagcg ccccgacaag cacccgggca acacccccac agcacgaccg      480
gcgcgggccat cacaacgggc cccaccgccc aaagacgaga ggccaccgac gcagagaaca      540
agaggaagag aacgagacag agaacacgaa gaaccacagg gcaaactac gagcaaacaa      600
aaaaaagaaa aaaaaaaacc aagaggggacg caggagacga cggacgcgcc agaaagacaa      660
agagacaagc aaagagaaat aagggaaaag caaaaagagg aaggtccaag caggagagaa      720
aaaagaagca acgagccaca aaacaggagc ataaagaaaa ggacagaaaa gcaccaagag      780
gacaaacaaa ggagggagaa cagaacacga aagacgaaag agaagaaaa      829

```

```
<400>      4
cggccgctccg ggcaggtatt taattgatta gaagacaagt tttaaggatat tttataatga      50
cttccttatg acaaatatct catcagaaat ctactgecta tctgatatct gactccatgc      120
gtgtatacgc gtgtagctca gtctattccc agcatagagg gtcatttgat gtacacgtct      180
```

```
<210> 5
<211> 1247
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (446)..(446)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (514)..(515)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (666)..(666)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (732)..(732)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (382)..(382)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (981)..(982)
<223> a, c, g or t
```

```
<220>
<221> misc_feature
<222> (997)..(998)
<223> a, c, g or t
```

```
<400> 6
gcccgatgaa gatcaccaca tgggcatggtg tgccctagat gcatgccgag cggcgcagtg      60
tgatggatac gaatgtaaatt attggtgtcgt ttgctcgaca ttttagactt gaaagcgata      120
```

```

tgctgcgagt ataatgtagt taaccatatt aggtggcgag atattcaata aatagtttac      180
atctgtcgaa aaaaaaaaaa aaaaaaaaaa aaaaggcgcg ggggggtccc ccggggccca      240
aggcgggggc ccggggggaa attggttccc gcggccccaa attcccccca aaaataagaa      300
aaaacntggg acaaccaact ccccgacct cccctccaac ccaccacaa caaaa          355

```

```

<210> 7
<211> 957
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (519)..(519)
<223> a, c, g or t

```

```

<400> 7
ttgggcttta ctaatgcatg ctcgagcggc cgccaagtgt gatggatgcg tggtcgcggc      60
cgaggtacgc ggtcagcagc tatctgagcc tgacggcctg atgcagtgtg agagtcaccac      120
agaagctaca gcctgcacag agtccttagct gcatgaaggg agacaccgtg gatgaagaca      180
gtggtccccct acagaaatgt tctataggtt ctctaacacg ctcagccccc actaccaatg      240
gcgagactag cacgctgcag ggatcccaag ggagaggggt ctctccatcc acaccacaca      300
agggcgagtc aaagccctta tcatcgcgca tgtcgacgtc atgtaaaagc gcctacaaat      360
aagatattct gcacttggtt gaaatgtcct acatacataa caaagacaca tactcaacta      420
cacggagtcg atcgatcacc ggtccgtgcg ggcgaaatgcc acttcgctct cgtgcgtcca      480
atgatgactc atagttacac accggtgtgc ggcgcacanc tatgagtgga tattcgccccg      540
ggatcacaga ccatggatth cccccgtgg ctgatcgaat atgcggtacg cggcatcaaa      600
ttcgcccggg agctacagac ctaaaaaagt tgaccgcgca gcggccgaag aacaggcttt      660
cgacggaatg ccaaacacag agggccgcag accggcaggc gaccccgggc ggaggagccc      720
cactgcgga gggcgaggcg aaggacagat acgaggacgc gagccacacg cgcgcccgtg      780
catgagacgg agacggccga gggagcgag acccgaagca gcgcgccaag agcgaccgcg      840
caagccacac gcgcctaggc cctgcgccac ggccggccac gcgcgagagg cggggcgagag      900
caccgcagga gaccgaccac ggacccgacc ggcccagggc agcagagcca ccgagct      957

```

```

<210> 8
<211> 1460
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1022)..(1022)
 <223> a, c, g or t

<400> 8
 ggccctgggct ctgctattcc tcaccctcct cactcagggc acagggtcct gggcccagtc 60
 tgccttgact cagtctgcct ccgtgtctgg gtctcctgga cagtcgatca ccatctcctg 120
 cactggaacc agcagtcacg ttgggtggta taactatgtc tcttggtacc aacagcacc 180
 aggcaaagcc cccaaactca tcatttatga ggtcagtaat cgccctcag gggtttctaa 240
 tcgcttctct ggctccaagt ctggcaacac ggctccctg accatctctg ggctccaggc 300
 tgaggacgag gctgattatt actgctgctc atatacaaga agtacttctc atgtcttcgg 360
 aactgggacc aagggtcacg tcttaggtca gcccaaggcc aacccactg tcactctgtt 420
 cccgccctcc tctgaggagc tccaagccaa caaggccaca ctagtgtgtc tgatcagtga 480
 cttctacccg ggagctgtga cagtggcctg gaaggcagat ggcagccccg tcaaggcggg 540
 agtggagacc accaaaacct ccaaacagag caacaacaag tacgcggcca gcagctacct 600
 gagcctgacg ccgagcagt ggaagtccca cagaagctac agctgccagg tcacgcatga 660
 agggagcacc gtggatgaag acagtggctc cctacagaaa tgttctatag gttctctaac 720
 acgctcagcc ccactacca atggcgagac tagcacgctg cagggatccc aaggagagg 780
 ggtctctcca tccacaccac acaaggcgga gtcaaagccc ttatcatcgc gcatgtcgac 840
 gtcattgaaa agcgcctaca aataagatat tctgcacttg gttgaaatgt cctacataca 900
 taacaaagac acatactcaa ctacacggag tcgatcgatc accgggtcgt gcgggcgaat 960
 gccacttcgc tctcgtgctg ccaatgatga ctcatagtta cacaccggtg tgcggcgcac 1020
 anctatgagt ggatattcgc ccgggatcac agaccatgga tttccccccg tggctgatcg 1080
 aatatgcggg acgcggcatc aaattcgccc gggagctaca gacctaaaaa agttgaccgc 1140
 gcagcggccg aagaacaggc ttctgacgga atgccaaaca cagagggccg cagaccgga 1200
 ggcgaccccg ggcggaggag cccactgcg gcaggcgag gcgaaggaca gatacgagga 1260
 cgcgagccac acgcgcgccc gtgcatgaga cggagacggc cgagggagcg cagaccgaa 1320
 gcagcgcgcc aagagcgacc gcgcaagcca cacgcgccta ggccctgcgc cagggccggc 1380
 cacgcgcgag aggcggggcg gagcaccgca ggagaccgac cacggacccg accggcccag 1440
 ggcagcagag ccaccgagct 1460

<210> 9
 <211> 738
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (287)..(287)
 <223> a, c, g or t

<400> 9
 agattttgaa agctcatata gaggcggcat tgggtcctcg tagtattgca tgctccgagc 60
 ggacgccaaag ctgtagatag gtggtgggtcg cggacgaggt acttgcgat cttgtattat 120
 atgttctatc cctcaattca tacagttcaa tattccatgt gggatttga atatgcgttt 180
 catatggata tagaaacatg tctatatact atacctagtt atctcttgtc tcggatgaag 240
 ctcccatcta tactggctga gacagttgca gcagcagacg tcatagntat ggcgaggcca 300
 caatctgacc ctcatctacgt tgaacgtgca gcttatataa taaagatact gactcgggtcc 360
 gtgtcgcgac aaaagactca cgcctggta aatcccagca cttgggaggc cgaggcgggt 420
 tggatcaciaa tgggtccggag tcaaagacca gcctggccaa tatggtgaaa ccccgctctct 480
 cctaaaaata caaaaattag ctgggcatag tgggtgatgc ctgtagtccc agctacttgg 540
 gaggtctgagg cagaagaatc gcttgaacct aggaggcaga ggttgcaagt agccgagatc 600
 gtgtactgac actccagcct gggcaaaaaga gcaagactcc atctcaaaaa aaaaaaaaaa 660
 aaaaaaaaaa aaggcggggg gaaacccggg gccaaagcgg tcccgggggg accctgggttc 720
 cccgcccaaa tcccatg 738

<210> 10
 <211> 909
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (623)..(623)
 <223> a, c, g or t

<400> 10
 ctatagttag aaggcacttg gaaaggcaaa gtggtcttct tcttcttctt ccttctcttc 60
 ctcttctctc tcttctctct ccttctcttc ctcttctctc tcttcttctt ccttctcttc 120
 cttctctctc tcttctctct ccttctcttc ttcttctctt tcttctctgt ccttctcttc 180
 ttcttctctt tcttctctct ctttctcttc ttcttctctc tcttctctct ccttctcttc 240

tctttttttcc	tttcttttttt	ttttgagatg	gagtccttgct	ctgttgccca	ggctggagtg	300
cagtagcacg	atctcggtc	actgcaacct	ctgcctccta	ggttcaagcg	attcttctgc	360
ctcagcctcc	caagtagctg	ggactacagg	catacaccac	tatgccccagc	taatttttgt	420
attttttagga	gagacgggggt	ttcaccatat	tggccaggct	ggtctttgac	tccggaccat	480
tgtgatccaa	cccgcctcgg	cctcccaagt	gctgggattt	accacggcgt	gagtcctttg	540
tgcgcacacg	gaccgagtca	gtatctttat	tatataagct	gcacgttcaa	cgtaatgagg	600
gtcagattgt	ggcctcgcca	tancatgac	gtctgctgct	gcaactgtct	cagccagtat	660
agatggaagc	ttcatccgag	acaagagata	actaggtata	gtatatagac	atgtttctat	720
atccatatga	aacgcatatt	ccaataccca	catggaatat	tgaactgtat	gaattgaggg	780
atagaacata	taatacaaga	tacgcaagta	cctcgccgc	gaccaccacc	tatctacagc	840
ttggcgctccg	ctcggagcat	gcaatactac	gaggacccaa	tgcgcctct	atatgagctt	900
tcaaaatct						909

<210> 11
 <211> 375
 <212> DNA
 <213> Homo sapien

<400> 11		
atctgctgct	gctctgtgtc	tggtctgtgc
ttgcagtgct	gagctggtat	cacgctcaca
		60
tcacatggct	ggtaatacgt	gtatatccac
atgaatcacg	gggataacag	cagggaaaga
		120
acatgtgaat	gccaaaaggc	catgcaaaaa
tgccatgtgt	aacctgtaaa	aaaggtgccg
		180
cgatggatgg	agagatatat	accattagg
aatcctacga	gagacaataa	taatagcaga
		240
gagagacgga	gagagaacac	agacgaaaga
gagagtagag	acaggagaag	ggaaagaaat
		300
gagagaaaaa	gaagagagaa	cgagacaaga
gaacaaagag	agggcgaaac	agaggcaaaa
		360
aaagacaaaa	aaaaa	
		375

<210> 12
 <211> 718
 <212> DNA
 <213> Homo sapien

<400> 12		
cggccccggg	cggctactcca	tgcctgacat
ctgcctcaga	tgagggatca	ggcagcactc
		60
taggaccaa	gaccaatctt	gatccaaccc
actctatact	aagaattacc	tcagaaccgc
		120
gtgtgaatta	tagactcatc	cgagtagaag
cgtacatttt	aataggcgtg	atcttgga
		180
atagactaca	tccattttga	ggagacatca
ctatggccat	gtactaaaga	gactatgcat
		240

gactgatgac ggaagatgtc cacggagact gtaatatatcg gcctttgact atcgactaca 300
tagtaagtaa tcctgttgtc aatttgctga tgaccatggt ggtccgagtc gcagatgcgt 360
caccgcctgt cataccagca cctaacaggt cgaggcaggc ggatcacttg aggtcaggag 420
ttcaagacca gcctggccaa tatggtgaaa cccagtctct actaaaaata caaaaattag 480
ctaggcatga tggcgcgtgc ctataatccc agctactcga gtgcctgagg caggagaatt 540
gcatgaaccc gggaggagga ggaggaggtt gcagtgcgcc gagatagcgg cactgcaact 600
ccagctgggt gacaaagtga gactccatct cgaaaagaca aaaccgaaag cacacacgct 660
gggggaacac actggccata atgtgtcccc gggaaaaggt atccggccaa aatcccag 718

<210> 13
<211> 686
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (285)..(285)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (312)..(312)
<223> a, c, g or t

<400> 13
agaatatacc aataggcgac ctggttcctc tagtatgcat agctcgagtc ggtcgccagt 60
gtagatagga gtaggtcgcg gacgagagta cttgcgtatc ttgtgttata tgttctatcc 120
ctcaatatca ttacgtcaat ttccatgtgg gtatggatat gcgtatcata gcatatagaa 180
agatgtctca tatacgata gcctaagtta tccttcgttt ctcgactgaa gctattccat 240
ttctatctac tggctgagaa cagttgagct agagaccgtc atagntagtg gcgagngcca 300
acaatctgac cnttcattac ttgacgtgca gctatataat aaatgatagc tagacctcgg 360
tccgttgccg acgaagagag ctgagagcgt gtaaataccc agcacgtttg gcgcaggccg 420
aaggccggcg tggatcacia tggtcacgga gcttaaagac cagcctggcc aatatggtga 480
aaccctgtct ctctaaaaa tacaaaaatt agctgggcat agtgggtgtat gcctgtagtc 540

```
ccagctactt gggaggctga ggcagaagaa tcgcttgaac ctaggaggca gaggttgcag 500
tgagccgaga tcgtgctact gcactccagc ctgggcaaaa gagcaagact ccatctcaaa 550
aaaaaaaaaa aaaaaaaaaa aaaaaa 586
```

```
<210> 14
<211> 720
<212> DNA
<213> Homo sapien
```

```
<400> 14
tagatcatat ggggcacatg ggtcatctag atgcatgctc gagcggcgca gtgtgatgga 50
tcccatctct actaaaaata taaaaatcag ccgggcatgg tggcatgtgc ctgtaatccc 120
agctactcag gagtctgagg aggagaatca cttgaacctg gaggcagagg ttgcagtgag 180
tcgaggttgc gctactagca ctccagcctg gacaacagag ggagactcta gtctcaaaaa 240
aacaacaaaa acctaacagc tgggttcaagg caccagctgg acgggtcaag tgggtggcct 300
tttctgggtc tttggaacac tatctataga aaggttgaca aatggcttgc aaagcacagt 360
gaagaacagt gaacttataa acggggatag aattaacgtg ccagctata tagcacactt 420
tattcttatg tgcacaccaa caacaaggct atgaaaattg gtatgacgat tattaatatt 480
aatggccaaa atagtgggaa cgatattggg agactcaaga aacaggggat taatccaagt 540
ggggacccat acagtgaaca agagacaaaa ggcgcaaaga ataaaacca aaaactcggc 600
gagggacgct acagcggaga aaaaagagca agaaaaata aagaagaaga acaacagaag 660
caggcgggcg agccaagcac ggggaacgcg gcgggaggca cacgcggggc acaagagggg 720
```

```
<210> 15
<211> 1791
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (459)..(459)
<223> a, c, g or t
```

```
<400> 15
gcggcctgcc ctgggcaggt tacacctgcg cctgcgtgaa ggggggctcc gagtgggtggc 60
gctgccgtca aatgcctgcc cgtttccttt acttattact ttatgctttt tgttcttggg 120
gaaggatgtg acagactcgc ggaggtgtcc ttgcatttcc tcgcctgat tcttgtgctt 180
tctacctccg ggtacactag agagcgtatg gcttgtagtt gtttgtgtgt tttggctttg 240
```

ttgtttggtt	cttctataat	gaaaacgtgg	gacaagaaga	tagaaaaaaa	taacttcaca	300
tcactcaata	tatctcatct	gaattactac	gaccttcgcc	accacttcta	caggggtaca	360
tgttgcggat	ctcagtgtgc	actccccctg	taacgcgtga	atattgcgtt	cccttggatt	420
gatgggtgatg	ctgtgtttgg	tgagtctaca	tcgaaacgnt	cacaacaatt	ctctcagtgt	480
gtgtcggaga	taaagtctct	gtgtggattg	tccgacaccc	tgtgtttatc	ctcggtatgt	540
tgtctcaggg	gataaaaaga	ctccctctgt	ttttcaccag	ccccggtata	taaaacattg	600
gacaaaaaac	aaacgaaatg	acttatacaa	ggcggttgga	gttggccgtt	gtcccatacc	660
acaacaagat	gttgtgtacg	cataaaaaaa	ctagtttgtg	ctactcacc	ttcttgtgct	720
atagtatcac	catataacgt	tcagttagaa	tatactcggc	caaacacaac	ttagaggaat	780
ataacctcgt	cggcactatc	aaaagcaaaa	tttagcgggg	gcaccaacaa	cagggctttc	840
tcccacgccc	cttatatgca	aaacatttga	ttcctttcct	tttaaataac	ggatgtggat	900
ttgtgtagca	cttctatcta	ggcatattga	agtttagcga	gtgcgcgtaa	gtgggtgcgt	960
gaaacaaaac	aatatatata	tagcaacgtg	aggtccaccc	ttacttatag	acaacactat	1020
ttctaataatt	cacaccagca	ggtaacatta	aacaccgatt	tcatttatcc	cgtaggaaaag	1080
tactaccaac	attacaaacc	cccaacgacg	acccttgagt	gaccaacggt	ctaaatagga	1140
atgtgaggcc	cccaaaagga	tcaggttgcc	catggtaaga	gaaaaacaac	aaccgaaggc	1200
accttcccac	attcgtggtg	catgtgaaaa	tcttatggtg	acttaacacg	gctaaacatg	1260
tggaccacag	ccacaaagac	ggaaaatata	aaatatgtg	ttctacaata	tagccccctc	1320
cacatgtggg	tgtgaaacac	atcaagccat	taaaaccccc	ctgtgaaaga	acacttcata	1380
tacagcttaa	gttgtgagtg	tgcaagaaaa	ccaacttata	acttctgaca	atatgatgtc	1440
gcacaaaaaa	acattcttat	aaggaccaaa	agtgataata	cacttcaccc	aaaattataa	1500
aacgcttacc	cggacaaatc	ttacccccact	tctatcaaaa	ctattaaatg	cggcaatgtg	1560
acaaacaccc	ataataaacc	caccacacaa	aacacatata	tgacattagc	ttcacctagt	1620
aacttaccac	tgatcgaaag	gcatatgata	ctcgcattct	aaatatatct	actttataaa	1680
caagatacga	atatataata	acatacaaca	caacaaaaca	aaaaaccaac	aactagttga	1740
atcaacttac	caaacactca	tcctcggtaa	aaattatcac	tcaccaaacc	a	1791

<210> 16
 <211> 613
 <212> DNA
 <213> Homo sapien
 <400> 16

```

gcggcgccgg gcaggtgccg gtgcagcgcg ctccgtgctc gagggggcag ggggagctgg      60
aggaaaccgc agatgagttt acctctcttc gaaagataga gataaataca agctacttaa      120
aaaatatcgt caaaaggttc gctcagcatc atagctccag cgataccagt tgtgttagcc      180
gctcagatgt acacatagcg ttcaagcatg ttccacacga tgcaaaatca tgcaatgcac      240
tgtgcaggaa gccagtagcc atgcagggac ggcacagagc atcaccagag gttgcctgag      300
agagaccatg cacgggcagg ctgcagatc ggcaggcta ggcggtaagt catggctaca      360
tagctgactc tccgagagct ggaaagtaag taaatccgag tgcaacaaat gccgagcgac      420
aagagtaccg agcacaaata gcatgaaccg aaaagagaat accacgtacc aacctatg      480
acaacatcac acctacataa aataatgaca ggggctgaaa caaagcgta ggatcccaga      540
acaccataat aagcaaggag aaccagacc ccaaacaaca cacacaaaaa caaacaaaac      600
acaaaaaaaa aaa                                                                613

```

```

<210> 17
<211> 167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (92)..(92)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (99)..(99)
<223> a, c, g or t

```

```

<220>
<221> misc_feature
<222> (160)..(160)
<223> a, c, g or t

```

```

<400> 17
actcctccaa gaggcgacaa gttcaaagct gagtaaagg gggaaatgaa ggaaacttct      60
tgcaacaagga gcttgcccaa gctttttgtg gngggggang aaaagtggat tgaagggagg      120
ggggcttgta aggaaagcct tgatggggcc agcccttggn attgaag                      167

```

```

<210> 18
<211> 484
<212> DNA
<213> Homo sapien

```

<400> 18
gacaatgaaa tcatatgggc gctgggttat aatgcatgct cgagcggccg cagtgtgatg 50
gatagcggcg ccgggcaggt acactgcatt tgaatgtggc tcattgcatg gtggctcatg 120
cctatgatcc cagcactttg ggaggccaag gccagcagat catttgagcc caggagttcg 180
agaccagcct gggcaacatg gtgaaacctt gtttctatta aaaatacaaa aataaaataa 240
taattagcca actatggtgg tgcacacctg tagtcccagc tactgggggc gctaagggtg 300
gaggatcgct tgagcctggg aggtcaaggc tgcagtgagc tatgatcaca ccactgcact 360
cctgcttagt gacagagaga gacctgtct caaaaaaaaaa aaaaaaaaaa gacttcacat 420
tcattctttc gaatttttcc ataaccctt ttagctggta taatggacag ctcttgggac 480
aaca 484

<210> 19
<211> 906
<212> DNA
<213> Homo sapien

<400> 19
tatcactatg ggcgactggg ttatctagat gcatgctcga gggcgccag ttgtgatgga 50
ttggtcgggg ccgatgctct cgtggagccc ccttagaacc atgcgacgga taccgatgct 120
tctgtggtag actctctact gtgcgccagg ttcccatgcc gctcctaata gccgctcgta 180
gaccttcttg actagagctg gccatttcta cttctgccat gatcaaccgc ctcccataga 240
gagaatttct atgccacact cgccatagat ttcgaacgac gtatttgtgg tgtacatcct 300
gtctgtatta atataaggac ggcgaggaca tgtcgatgga ctctgagccc acaaccgaag 360
ccatcagcaa tcccccttgt gaccttgcac gggttatcat gcccgagca tggagacctt 420
gagagtgaga cgtcgcatag ggagagttag accatatata cgacacgct agaactagtt 480
gctctagcac cacagctttg agacgttgga tgcaactcgt gttccatccg actagaaatc 540
acatgtgttg atggccgggc cctggctata agtgcagtac attatctttg tcgaaagtcc 600
ttttcttggc tcatcctggc tcaaaaatca ccccaactga gcaccttgca acccccaact 660
cctgcctgcc agagaacaaa cctctttttg actgtaattt tcctttacct acccaaattc 720
cttataaaac ggcccacctt tatctccctt cgctgactct cttttcggac tcagcccgct 780
gcaccaggt gaaataaaca ggcacgtttg ctcaaaaaaa aaagaaaaaa aaaaaaaaag 840
tgggggtaac cagggacaaa aggtcccggg ggaattgtga tccggccaaa ttcccaaatg 900
gacaac 906

<210> 20
 <211> 744
 <212> DNA
 <213> Homo sapien

<400> 20
 aggacaattg aagtcctata gggcgcatgg gtctctaac tgetgctcga cgcggcgaca 60
 gtgtgatgga tggctggtgt gatcatggct catgcaacct tgaattcctg ggcacaagtg 120
 atcctcctgc cttagcctcc cagagtagag ttgggactac aggtatgcgc caacacacct 180
 ggctaatttt attaaactttt acttttagta gatgatggtg ggggtgcaggt ctactatgt 240
 tgcccaggct gttctcgaac tcttggaaca caagccatcc tcccacactt agtctcccaa 300
 tgcgccggac ttacaggtgg ctcaagtgtgt gagcacaacg tgcttggaact ttactccact 360
 atcttgaaat cagctgggac ggaggctttc tatctgggtg gcgactgagg agtgccaccc 420
 tgaagtcacc ccaggtcatc gtgtggactg ggacatagcc taattacacc caccctgtgg 480
 tagtctgtgg acagaagctt tggctgataa tcagtgggtc actacgctga taaccctgct 540
 ggtgacacat tgtgattcgg ctacacacat gtccacacac aatagagaag caagagagaa 600
 gacaagagag gaagagagag aagaaaaaag agaagcaaga agaaaaagaa aaaggacaga 660
 cacgaggagc agcaagaaag aaggagagag cgagcagaga aaggagagag ggacagaaga 720
 caggcaggga aagaaggga gaag 744

<210> 21
 <211> 851
 <212> DNA
 <213> Homo sapien

<400> 21
 ctctctctct ctctctctct ctctctctct ctctctctct ctccctccct ttgctttccc 60
 tctctctctt tacagatgcg aaagctatag ggactatagg gcctctcgga gatagaagtg 120
 ggaggagagg ataaaaaaga agagtccaga accgcgcagc agcggcagca ggacagcagc 180
 aagcaaagtc gacgtgatgc gcgggcagcg agcgcgcacc cctgatgctg cagaagcaga 240
 acaccagaag cggcggggggt gagcatcaac gagagcagcc catggacaaa acagccagcc 300
 ttggaggaag ctgcacgacc ccgagagcac ctctacatt caccgtgcga ggagagctga 360
 cagcacagaa agtacatcac aaaagccaat cttcatctca tcgaccccg cagagcaatac 420
 cagggtggggg aacgaaacgc aagaagagag acgcacaagc agcagacata tcacacgccc 480
 gaactgaaca tcatcaagat actcgccagg acgatgctga agcaccacac aaaacaccaa 540
 atacaaagca cccgagaaca ccctgtcggc acacagcacc cccctgcat ccgccggaac 600

agatgaacag agggcagagc aacacacgca gaaatgagaa caacctccac agcgaacaca 660
 acgcagccta acacaatgat gacgatggac ctgatcaaga agcccacccc acaacgatgc 720
 acaaaccagc caacagacct gacatgaacc cgcccaactg cgatcacgac gcaccaccac 780
 acacagaaac gccgcaccac acacctctcg aacacccctc cgacccccac acactcctcc 840
 gaccgcccgc c 851

<210> 22
 <211> 1129
 <212> DNA
 <213> Homo sapien

<400> 22
 atggcagccg caagagaaaa tgaggaagat gcaaaagcag aatccctga taaaaccacc 60
 agatctcatg agacttattc actaccacga gaacagtatg ggggaaaccg ccccatgat 120
 tcaaattatc tcccaccggg cgttggacc cgaagtccacg cgccggaact cgaaccagga 180
 gctagaggac ccagcgcag aatccgcgga ggccgagggc ttcattccacc gcgctctcag 240
 atcgcgctcc agcccagatc tagccacgaa gacaccggct acctctgcct gggcttcgtg 300
 ttccatgagc tccaggaagg cgacggctcag tgcttggtg gggacccgga ccgatgcgaa 360
 ggctataggg actatagggc ctctcggaga tagaagtggg aggagaggat aaaaaagaag 420
 agtccagaac cgcgagcag cggcagcagg acagcagcaa gcaaagtcga cgtgatgcgc 480
 gggcagcgag cgcgaccccc tgatgctgca gaagcagaac accagaagcg gcgggggtga 540
 gcatcaacga gagcagccca tggacaaaac agccagcctt ggaggaagct gcacgacccc 600
 gagagcacct cctacattca ccgtgcgagg agagctgaca gcacagaaag tacatcacia 660
 aagccaatct tcatctcatc gaccccgag agcaatacca ggtgggggaa cgaaacgcaa 720
 gaagagagac gcacaagcag cagacatatt acacgcccga actgaacatc atcaagatac 780
 tcgccaggac gatgctgaag caccacacia aacaccaaatt acaaagcacc cgagaacacc 840
 ctgtcggcac acagcacccc cctgcatcc gccggaacag atgaacagag ggagagcaa 900
 cacacgcaga aatgagaaca acctccacag cgaacacaac gcagcctaac acaatgatga 960
 cgatggacct gatcaagaag cccaccccac aacgatgcac aaaccagcca acagacctga 1020
 catgaacccg cccaactgcg atcacgacgc accaccacac acagaaacgc cgcaccacac 1080
 accctcggaa caccctctcg acccccacac actcctccga ccgcgcgcc 1129

<210> 23
 <211> 900
 <212> DNA

<213> Homo sapien

<400> 23

aagacgacaa aggaaagttg aatttataag ggcccattgg tttatcatag atgcatgctc 50
gagctggcgg cagtgtgatg gatccccggg caggtactgc acatagacag aaagaatggc 120
cgagctgaga ctccagtgtg agacctgcac cattcttaaa tgatgccag tgttgtagtg 180
aatgacaacc acagtgtgct gccaaatacc tgccaggatc ctacagaagg tgtgagcctg 240
atggatttgt catagtggaa tgaagctgcg gaagtccttg agtgcccata ccatatgcc 300
cattgatgca aactgcttgg ctgtaatcac tgtgtcatag ctgtattacc tgtgtgcaca 360
ttctgtatcc tggatcaciaa ttcacatcac cacacaatac ttgatgcc 420
catacacact cctcactaat ccaaccaacc acacaactct aaaaaccaca cacaactaca 480
tctcttacta cccacaccac ctctcccta acatactaca ccacgactaa tcaacctcta 540
gtatcaaacc acttaaatac ctaacgacta catatcatct ctcttcgac aaccatccca 600
tatccactca caccagcact aataaataac aaacaaactc aacaagccac tagcacaaca 660
ccactcctca cactccaaac aaccaccaca gaaaatcaac caatacactt accacaccaa 720
cataaatacc caaaattacc actatcaacc tcaaaactta ctatcacata caaaatcaaa 780
tccacactac accaccatca accacagaac tactaagtc acaactccta tgtacccagc 840
aagacactct tacactacac aaccatccc aacacatact acttaacact atccctaaca 900

<210> 24

<211> 976

<212> DNA

<213> Homo sapien

<400> 24

agatgctgct cgaccgcgcc gataatgtga tggatttttag taaacagcaa aatattttga 50
aagctggatg cagatgctca gatgctagag ggtgaaatgg acagacttg ctaggaagag 120
atatgtgaat gttagcagag ggacctttct ggggattaag gaatcaggaa cacaatttc 180
tcttctttcc ttcccaccag gctccatgcc cccttactg gaggaccaag accttggtgc 240
cttcaattta cgggatccca gtgggatcct gatattttcc atagtttctt aacaacattt 300
caagttaaata attaaaatta ttcatagggt gtggagtgg ccaagtgcaa cacattgctg 360
tcaggggtgt tggctactcc gccagctggt gaaaaaagga gaaagaaaga gagcaactg 420
agatccacac accccacaca gtatgaccaa ggcgccttct gacttcagga aagccaggca 480
gacggggatc cctggatgct cacagcttgg cagccgatat tcaactggagc cagaacagtc 540
tgctctgagg cttgtctgca tccagaagtt gcaggaaagt tccacaacgt gtgaagactt 600

cttttgtcct ctctgtggga gagctgggga acataggatt ccttatagac ttatcctccc	650
cacctctcca atgagcaaag gctgctaaaa acttctgaag cctgaatccc aaaagctgga	720
ggctttctct ctctcccag tgatcggagc ttctcagggt ggcggtattgt ctcatggttc	780
tgggggcccc aggaggttc ccggcaggag tgagggtccc ggctcttggg agaggccttt	840
cagctcttgg ctccggggtt ccacctcagc ggggctccct gcgctgcgtg ccggggtgcc	900
ggctccagac tggctctctt ccccgcgct ttagctgggg actggccacg tccggttatt	960
tcccaccca aagaga	976

<210> 25
 <211> 1660
 <212> DNA
 <213> Homo sapien

<400> 25	
gccgtaccca cacctgcggt tgtgggctac tccaaacctg accggttaca tacttctcaa	60
taggcaggta ggtctcagtg aataattgaa aaatggctct cactatgcac aggctataaa	120
gggactagta ttctagttta atcatgagaa aggtctctctg ctttaagaag cactctacat	180
gcgtttccca agccaaactg ctggggctca actgtgggtt ctgctccttc ctggctgccc	240
aaactcagga aagtgacttt atttctcca ttctctcatc tataaaatgg gagtagttgg	300
gtggcattaa accgtctatg gaaagtcttc agcatggcgc ctggcacaaa gcaacggctc	360
cctcgctctt gttctcactc ctgttccaca gaattacacc cactcttctc tgctgatact	420
cttaatctca gatcccaat tctgtctttc aaatgtgttg tgtcaacatt tatttgcaaa	480
catgtctatt tgatttcaaa tgaaaacgct tttagtgga tttaaaaaca aaacacatgc	540
gggggagaaa agagaggctg acagacatgt tagtaaacag cgaaatattt ttgaaagctg	600
gatgcagata gtcagatgc tagagggttg aaatggacag actttggcta ggaagagata	660
tgtgaatgtt agcagaggga cctttcttgg ggattaagga atcaggaaca caaatttctc	720
ttctttctct cccaccaggg ctccatgccc cccttactgg aggaccaaga ccttgttgcc	780
ttcaatttac gggatcccag tgggatcctg atattttcca tagtttctta acaacatttc	840
aagttaaata ttaaaattat tcatagggtg tggagtgagc caagtgcac acattgctgt	900
caggggtgtt ggctactccg ccagctgttg aaaaaaggag aaagaaagag agcaaactga	960
gatccacaca cccacacag tatgaccaag gcgccttctg acttcaggaa agccaggcag	1020
acggggatcc ctggatgctc acagcttggc agccgatatt cactggagcc agaacagtct	1080
gctctgagga ttgtctgcat ccagaagttg caggaaagtt ccacaacgtg tgaagacttc	1140

ttttgtcctc tctgtgggag agctggggaa ataggattcc ttatagactt atcctcccca 1200
 cctctccaat gagcaaaggc tgctaaaaac ttctgaagcc tgaatcccaa agctggaggc 1250
 tttctctctc ctcccagtgat tgggagcttc tcagggtggg gattgtctca tggttctggg 1320
 gccaaaggca gttccaggaa ggaggtgagg gtccgactct ggagagaggc atttcagctc 1380
 tttgggtcag gggttccatc ctccagcggg gcacccctgc agtctgctgc ctgggtgccg 1440
 gtctccagac ctggctctct tccctcgcgc tcttcttcaa gcttctggga ctgagctgcc 1500
 accgtgggtgc tcttgctgga gtggcacccc atctcagagg gacacagagg atccagtgcc 1560
 cttggatgtt ccaggaggag gaaggtctgt gccttctctc ttggggggcca gcgttaaata 1620
 accatctctt tgcagcactg ttgaaaagag ccagttccgt 1660

<210> 26
 <211> 720
 <212> DNA
 <213> Homo sapien

<400> 26
 gcgtgggtcgc ggccgagggt aatgtcactt caggaagcta ttggtgaagg tttaaacaag 60
 gtgagagata ttattggaag ctggaagaaa ggtgactctt gtgacatagt agcagaaatt 120
 ttagcaatgc tggaaattta ttttccatga aacagtggaa aataagtata gctcaactgg 180
 atgatctcac taaagagatt tctaggcaat gtcaaagggtg ctatctggat tcttctagcc 240
 cctatagcaa aagacaaaag gagaaaggca agcaagataa aaaattgttc gatataaagg 300
 agccacaact ttttgggttt gaaaaaatac ttttttcatt cctaacctct ccagacagtg 360
 aatgatgcca aaattaagca atctgttcca gacagagcca atccaggga ctctcagcaa 420
 aatgatgaag atgaaaaggc atggctataa aaggctttgt taagaacagg aagggtaaat 480
 aactgtgtt accaacaac aatagggccc ctaaaaatct taatgtctca cggcagtttc 540
 acatgggaaa ccaagataga ggtgggcat ctgaaagaga tttgtgggtg tgatttgtgt 600
 ctgatggagt gaattataac tgtttaagag aaaccattaa tttaaaggat tagatcaggt 660
 tgattggaaa ggatattgag ttaaatgggtg cggcattgtg aatcttaatg ctaaaaaata 720

<210> 27
 <211> 708
 <212> DNA
 <213> Homo sapien

<400> 27
 cgtgggtcgc gcgagggtcaa cttggaactc tggaaatgtg gcttcgctca ctgggcctt 60

gagcttgggc gactgccggg tccgcgaaac ccgaccctg cagagctgac tccgggacta 120
 ttttagtttc taacgtcaac ttgccccgat tcaagagggg ttgcgcaaaa aacgtagccc 180
 gttgtcctcc tgctgcagct gttgttgag ctgtgtggct gcgtttagta ggaataacca 240
 actcaaattg ggaagttctt cagctcagta tccgtcctg taattagaac ttcttttctt 300
 taagcgatga aattttggac agagagatct ggagtttagt ttgtgacgtc gaagaacaaa 360
 ctccaaaatg taataccttg tccccatttg gggggcaaaag ttgtgggcta attcaattcg 420
 ccatggaagt gtcttctttt taaagtagtt tagtaggtat atgaatgtat ctgtcagttc 480
 ttgagagacc tatggattta gcagagatct taacttagtg ccaaaaagtt tcatatttaa 540
 aggcgaataa agcgaatatt tcttaaaaaa aaaaaaaaaa aagggaaaaa aacaaaaaaa 600
 aaaaaaaaaa ggtggggggc cccggggcca aagggttccc gggggaattg ttctccccc 660
 ccatcacacc cacaacacaa aaaaatgaaa aaggcacaac cggaccat 708

<210> 28
 <211> 1099
 <212> DNA
 <213> Homo sapien

<400> 28
 tttcattata tattgtctta tattctaggt cgccacttt acacttcctt ctcatgcact 60
 tgggtcaatac cacgcccgt gaccacactg gcgacttccc tctctgtcgc cctccgtga 120
 agtcagaccc actctgcggg ccaagaaagg tgaccgggct tcttccggc ttgctaagca 180
 gaggcgggaa gcggtggttt ttagcggatt ctctagctg tgccgggtga gtggcgctcg 240
 cgttcggggc cgtgagaccc atcccggga cccgtctccg cgggggcagc tggagggcgg 300
 cggggctcct ggcgccgta gcgcacctg gcaggtgtgc cagccaggtc cccggttctg 360
 ggatccgagg ccatggcttg gagtggcca gaccgaact tcgtcctgt gccaaaactt 420
 ggaactctgg aaatgtggct tcgtcactg gcgccttgag cttgggcgac tgccgggtcc 480
 gcgaaacccg acccctgcag agctgactcc gggactattt tagtttctaa cgtcaacttg 540
 cccgattcaa gagggtttgc gcaaaaaacg tagccggtg tctcctgct gcagctgttg 600
 ttgcagctgt gtggctgcgt ttagtaggaa taaccaactc aaattgggaa gttcttcagc 660
 tcagtatccg ctctgtaat tagaactttt ttctttaag cgatgaaatt ttggacagag 720
 agatctggag tttagtttgt gactcgaaga aaaactccaa aatgtaatac cttgtcccat 780
 ttggggggaa agtttgggct aattcaattc gccatggaag tgtcttcttt ttaaagtagt 840
 ttagtaggta tatgaatgta tctgtcagtt cttgagagac ctatggattt agcagagatt 900

ttaacttaag tgcaaaaagt ttcataat	960
aaaaaaggaag aaaggggaaa aaacaaaaa	1020
aaaggggtcc cgggggaatt gttctcccc	1080
aaaggcaca cgggacat	1099

<210> 29
 <211> 598
 <212> DNA
 <213> Homo sapien

<400> 29	
cacccccacag gagtaactca tcaggactta ccagactgct gcttttgggc atcatctgct	60
gggttgatga tttggtttgg ccaagagtct tgccaagact ttaatctatg cctcttggtc	120
tacatgaatt ctggaatt actcacgttc cataggaaga gtgcatcccc aggtgatggt	180
ttttggttat ggtatgatcc tttcacaccg agggatttca ttgtttaaaa cgtgtttctt	240
taaaagaagc cttgataacg agagtggggg aaggaggcag cagactttga agactgtggc	300
ctttggtggt ctggagtagg gggaggggag gagaaacatg tttccacat catcgcaagt	360
gtgtgcctt tgccctttt caggatcctt agagttgcct cctccctcc accccgacag	420
ttttgcaata atgtgcctta tcagttgtga gtttacaggt gaagcaattt cccaaataaa	480
tggtatgtaag tgttcaaaaa aaaaaaaac aaaaaaaag gctgggggaa accggggcca	540
aagcctctcc cgggggggac attgtttccc gcccgaattc aaccacaca aaccaccg	598

<210> 30
 <211> 1495
 <212> DNA
 <213> Homo sapien

<400> 30	
gcacgaggaa aatgctgttt gtattttgtg gtctaataag gagttcggga tagcctgttg	60
tatttgctc atgccagccc ctgagctgcc ttgggagaag atgctgattg tcttggtcca	120
gagtactgct tttgcagagt gacaggctgc tgggacagat gtcctcctgt tgcattttg	180
tggtatgtta gtaccaatga tgacacggga actcacatca ctgacaccgc tcttcattt	240
ctgttagtct cttgaagagc atttttttgt acttctttgc tgatgacctt cctcttcata	300
agccaagtga aacaagttga cgaactgcct aggacttcca cgtgttgctc acatacatga	360
tgatttctgt cacgctcttg tgttcagaca cactgacatt accatgtatg tcagacctcc	420
ttatgatcgc atgtcctgac agttaagctg attgcaaaca gactattaaa tatgaatgga	480
gcaaacgctg tatgtcatgg atatgttctg gagaaattct taccatctg gatggggcag	540

```

ggcccttgac tcacctgaat catgaccagg caaacatttt atctgtcctt tctgcaggaa      600
tccgttctgt gtcatgctag gagaatgggt tcagtatatg gggccatcag gcagtatacc      660
ctctgaatgt ttttcattgt tgtatttgc ttagagtaact aaacaattgt atcttttaat      720
ttatctttta attcaaagag gaaaccttgg cttctgataa ctttggttg tttgtatetta      780
atggcctata gctgtcatta cttcctgtag ctgcagtaca gaattgttac agacctggat      840
taatgcttcc aaagacagaa ggaccttggc acctaaactg accagecctg tgatcctgca      900
ccccacagga gtaactcatc aggacttacc agactgctgc ttttgggcat catctgctgg      960
gttgatgatt tggtttggcc aagagtcttg ccaagacttt aatctatgcc tcttgttcta     1020
catgaattct tgggaattac tcacgttcca taggaagagt gcatccccag gtgatggttt     1080
ttggttatgg tatgatcctt tcacaccgag gatttcattg tttaaaacgt gtttctttaa     1140
aagaagcctt gataacgaga gtgggggaag gaggcagcag actttgaaga ctgtggcctt     1200
tgggtgttctg gagtaggggg aggggaaggag aaacatgttt tccacatcat cgcaagtgtg     1260
tgccctttgc cccttttcag gatccttaga gttgcctccc tccctccacc cgcacagttt     1320
tgcaataatg tgccttatca gttgtgagtt tacaggtgaa gcaatttccc aaataaatgg     1380
atgtaagtgt aaaaaaaaaa aaaaaaaaaa aaaaaattct ggggggaaacc gggggccaaag     1440
cctctccccg gggggacatt gtttcccgcc ccaattcaac ccacacaaac caccg         1495

```

```

<210> 31
<211> 546
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (501)..(501)
<223> a, c, g or t

```

```

<400> 31
gtttcctcag acagtcttcc ttgagcaact tcctaaacgc ccttcattat cccctttcaa      60
gctcatgcct agagagcaag gagcaaagcc attagaaagg cttcatccca ccagcaggag     120
aagctaggac atcccaaagg gtccacttca tagagaggtg ccaaccccca cacgcacacc     180
aggcacacaa atgcatgtgt gcacacgcat accacaccct ccaattgtcc ccagaatggc     240
tcccttcagg gagtcatgtt accgggacac caaatgaggg cacaatatcc ttactcctac     300
agtttctctg tcacattcgg attagagaaa tgggatgtct ctaaataatg tgtctaaaat     360
tctctataac ataagtgcac atgttacgtg aaaaaaacia aaaaaaaaaa aaaaaaggtc     420

```

ggggggaacc cggggccaag gcgggtccccg gggggaatth gggtccccgc cccaattccc 480
 ccccatctcg gagaaacagg ntggcgggcg agaaaacccg ggcaccaaga aagccggaca 540
 cacacc 546

<210> 32
 <211> 1778
 <212> DNA
 <213> Homo sapien

<400> 32
 ggccgcctca gtttccctgg ccgtaaaacg cgggcgatgg cgctcgatgc cccgggagac 50
 gccgggggtcc gcgggccctt ccggcaccgg gtccctccttc aggttcgggc acccggtctgc 120
 ctccacgcgg ggcgagcgcg gcgatgggat cggtcctgtc tgcgctcagc cccgctttcg 180
 ctatccctct gctccagggg cagcaaaatc agcagatgag cccccagcgc gcctgcggcc 240
 cacacactgc ggccgtaaca gttaaacaga cggggaacat tcatgtgcgt agagctcttc 300
 acggggcgat acagaaatgt gtcgttctaa agcgttaacg acctgcaatt tgcatactct 360
 ccaacacatg gatthttactg attcaattat ggatgtgtgc aaagaatctg ctgctcgggc 420
 gtgggtgtcct cagtgtctgag agagccccgc gacggcgggtg cagctcctcc agggcgcgca 480
 gccccgccac ctggcgccac cgcgagggag cgcaggccca gggcccgggc agacgttgga 540
 ggggacgcgg caggtgaaga tggggcacct ccacttccct tctaaaggag cctgggaata 600
 ggctaggaaa tgtccccact gtagaagaca gcaggaacat ctgacacgcg gataacctgt 660
 gctgagctcg ttatatccc agcatttaat tctagccatt aggcattgct tagccacaac 720
 ttgcgatagg aaggttattg caggtaagtt aagactcctt tccacttctt cctaagggtc 780
 gctgacccat ggttctctag cttttgctgg taatcccacc cagattctca gcacctagg 840
 ttggaatgac ccctcctgag gtgggtgggg tagctgggag gcacctccct gaactgactt 900
 ttctgccttt ttgaagggtgc agtggctgag cgctccttca gtgttttccg gtagtctttc 960
 ttcagcccag tacgcagttt cctcagacag tcttccttga gcaacttccct aaacgcctt 1020
 cattatcccc cttcaagctc atgcctagga gcaaggagca aagccattag aaaggcttca 1080
 tccaccagca ggagaagcta ggacatccca aagggtccac ttctagagag gtgccaacct 1140
 ccacacgcac accaggcaca caaatgcatg tgtgcacacg cataccacac cctccaattg 1200
 tccccagaat ggctcccttc agggagtcac gttccgggac accaaatgag ggaaaatatc 1260
 cttctcctac agtttctctg tcacatttgg attgagaaat gggatgtctc taaataatgt 1320
 gtctaaattc tcttaacata agtgcatatg ttacgagaga tctgatccca gcctcccttt 1380

tttgttaaag tgggtggtgct ttgccaccca tgtcaaaatg atctgggctt tccacatcaa 1440
 atgcaaggga tgagcttgga ggacataccc cagtaccagc aatgatcttg agccaatggc 1500
 agcgtcagct cacaacgggg tgattgaggc ttcttggtta gaagcttttag aaacttgagg 1560
 tcagtaaaac ccaaattgat cctttctcta gatcctctag atttctctag aggaaaaggt 1620
 gacaaaaaca gacacttggtg ctcaccgtca ggggcacaat gctgtccgtc aatcctcatg 1680
 cagtcctccc caccatttcg cactactgaca ccactactac tttatgataa aaggagactc 1740
 aggcagctta gataacagct gaaactcagc cagctatg 1778

<210> 33
 <211> 264
 <212> DNA
 <213> Homo sapien

<400> 33
 acccctgccc atccgcgggc ttgggtgacc tgcgcgtcga tagcgcgtgc tcgaagagga 60
 gaggcaacct cagctccagg ggtttgaacc gacgccactt tcagttacga gtaaaactgag 120
 accagagagc agaggggggct tatttccttc tgccctatac tggccgtcga atgagcaaca 180
 gtcacacaga gcaggcgacc tttttgtcaa aagtgtgtgg ggcggggcgc gcagtaggcg 240
 ccctaaacgc tggactgaac agag 264

<210> 34
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 34
 tgggacctgc gccctgaatg aaggcttccc tggtagcccc tgccgatccg cggctctggg 60
 gacctgcgcg tccgatagcg cgtgctcgaa gaggagaggc aacctcagct ccaggggggtt 120
 tgaaccgacc cactttcagt tacgagtaaa ctgagaccag agagcagagg gggcttattt 180
 cctctgccc catactggcc ggcgaaaggg caagtcacac agagcagggc acctttttgt 240
 caaaagtgtg tggggcgggg cgcgcagtag gcgcctaaa cgctggactg aacagagaag 300
 cttaattgat acttaagagt ggaagcttag ctacagttaa ggactccttc ctctttcat 360
 tcatttaata aagatttatt gattc 385

<210> 35
 <211> 416
 <212> DNA
 <213> Homo sapien

<400> 35
 cggccgcccc ggaggtgtc tgtaacatcc atcaaggatt tccatagggg tgactgggtgc 60
 ccgcccaga ctgcaccagt gcctgctcat tgaggagagt aactgctggc caggcagaaa 120
 gaatatgggc tctgcaatga gacagacctg gaggggactc tcccgttgag cactagcagc 180
 tggaggagtt gggagtcat ggctatcatg gttgtgttaa tcgattgtgg ggatgaaatg 240
 tcattgtgta tgggaaggcg ggctcatggc tgattggcaa taaaatggcg gctgccgttg 300
 tcattgtctc caaaaaaaaa aaaaaaaaaa aaaaaaggct ggggggtatcc ggggccaaag 360
 cggttccccg ggggaatttg tttccccccc caattcccc acaatttcgc aacagt 416

<210> 36
 <211> 1612
 <212> DNA
 <213> Homo sapien

<400> 36
 ctccctccga ggaaccagtg gtgacagctg aggccatgtg agtaggatcc tgaatgaggc 60
 tttatctctg gctgttcgtc ccatcgtcca ccgtggcacc agctccctca gccagccggg 120
 atgggaccag cgactgagag agccagaggc agagaggtga gggtgaccat atcctggact 180
 gtgagaggaa tgggactctg ggctgtagc tgccaagcag gtggcagggtg ctccaggctg 240
 tgatctgcac cctctgacct ctgacattga cctcctacct tgacccctgc ctgaccaagc 300
 catgtctgaa caggaggctc aagccccagg gggccggggg ctgcccccg acatgctggc 360
 agagcagggtg gagctgtggt ggtcccagca gccgcggcgc tcggcgctct gttctgctgt 420
 ggccgtgggc ctgctggcag gctgtggcgc gggcggcgtg gcaactgctgt caaccaccag 480
 cagccgctca ggtgaatggc ggctagcaac gggcactgtg ctctgtttgc tggctctgct 540
 ggttctggtg aaacagctga tgagctcggc tgtgcaggac atgaactgca tccgccaggc 600
 ccaccatgtg gccctgctgc gcagtgggtg aggggcccag gccctcgtgg tgctgctcag 660
 tggcctcgtg ctgctggtca ccggcctgac cctggccggg ctggccgccc cccctgcccc 720
 tgctcgcccg ctggccgcca tgctgtctgt gggcattgct ctggctgcct tgggctcgt 780
 tttgctgctg ggctgctgc tgtatcaagt ggggtgtgagc ggacactgcc cctccatctg 840
 tatggccact cctccacccc acagtggcca tggcgcccat ggcagcatct tcagcatctc 900
 aggacagttg tctgctggcc ggcgtcacga gaccacatcc agcattgcca gcctcatctg 960
 acggagccag agccgtcctt cttctcacag cggcctcagc gtccccagag ccgagccagg 1020
 gtgtgagtgc atgtgaacgt tgagtacaca tgagtgcgtg tatgccccca ggctgggtca 1080
 gctcttctgt ggattgcatg gcgtgtgatt aaaagcccat gtgttccac acatccacat 1140

catgggaagg ttaatgtgtg cctccttggg actgggtggt ggtgtccatg gaacttcctc 1200
 tctgtatctc aggtcagtag ggcagaaac gcctcatgat gaagattctt gagccccatt 1250
 tccaagaccc ctcacatcca atcctgtcct gtaacatcca tcaaggattt ccataggggt 1320
 gactgggtgcc cacccaagac tgcaccagt gctgtcatt gaggagagta actgctggcc 1380
 aggcagaaag aatatgggct ctgcaatgag acagacctgg aggggactct cccgttgagc 1440
 actagcagct ggaggagtgt ggagttcatg gctatcatgg ttgtgttaat cgattgtggg 1500
 gatgaaatgt catttgttat ggaaggcggg gctcatggct gattggcaat aaaatggcgg 1550
 ctgccgttgt cattgtaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg cc 1612

<210> 37
 <211> 449
 <212> DNA
 <213> Homo sapien

<400> 37
 ccgccccggg aggtacagtc cagcctcggc tgggcatcag agggaaacca tgcaaagagg 50
 gggaggggga gaggagacca atattttgaa atttattgag acattttaga acctagtata 120
 tagcctcttg gtgaatgttc tgtgtgttct taaaaagtga atgtgtattc taccactgtt 180
 cagtaaatgc caattgggtt aagtttgttg atagtcaaat ctatctcctt acccatcttt 240
 ttgtcccat ttttctgtca gttattgaac aagagggtgtt aaaatctcca attacttcta 300
 tttctctaac actgccattt ttttctttgt ggattttgaa tttctctata tattttgtat 360
 attttgaagg tcacatacat cttttgtcgt catgtattct gatgaattga cccttttgtc 420
 attattaaat gtgctttatc tctattcat 449

<210> 38
 <211> 598
 <212> DNA
 <213> Homo sapien

<400> 38
 aggagctgga gacagcccg gcaacacggg gaaaccccg ctccgccaaa agatgcgaaa 50
 accagtcagg cgtggcggcg cgcgcctgcg gtcccgggca ctccggcaggc tgaggcagga 120
 gaatcaggca gggagggtgc agtgagtcga gatggcggca gtacagtcca gcctcggtg 180
 ggcacacag ggaacacatg caaagagggg gagggggaga gggagccaat attttgaaat 240
 ttattgagac attttagaac ctagtatata gcctcttggg gaatgttctg tgtgttctta 300
 aaaagtgaat gtgtattcta ccaactgttc gtaaatgcc attgggtcaa gtttgttgat 360

```

agtcaaactct atataccttac ccatacttttt gtcccatctt ttctgtcagt tattgaacaa 420
gaggtgttaa aatctccaat tactttctatt tctctaacac tgccatcttt ttctttgtgg 480
atcttgtaatt tctctatata ttttgtatat tttgaaggtc acatacatct tttgtcgtca 540
tgtattctga tgaattgacc cttttgtcat tattaaatgt gctttatctc taaaaaaa 598

```

```

<210> 39
<211> 1016
<212> DNA
<213> Homo sapien

```

```

<400> 39
aacaaaaaga tcaacaagga atgattcact cactataggg ccactgttga ctctagatgc 60
atgctcgagc ggcgccatg tgatggattg gtcgcggccg aggtacggag gaagctgttt 120
ctaatacttt tgttggttaa aaatacatct cgctgctgtg gaaagcctgt agctgccagg 180
agtgttacag agggcattcc tcccttgagt tgacatttgt gccaaaccgg cttttagggc 240
ttctccagct tttaagatgc gataatgata agatgatcat cgggaaaaca tccctcagat 300
gaaacgttca caggctgggc tctgaaaact ggcatcaga tgattgcggc tccccatac 360
tgtaggaata ttgtcttatg gcttaagggt gcctcgctcc tcactgttaa tcagtgaag 420
tttatccaga ggtaattac cggttttctg gtgggtatct gggaactgag gatgggcaga 480
ttaactgttg tatatgacca tagtaaagca aaagactgtt tgagaatgag taaacgttcg 540
ttttctccc tacagaattt accagttact ctctgtccat tccactcact actgtcttca 600
tcacacacac agaggcaaac gtctgattca gatagccagg tgtgccatgc atgcactcca 660
ccatatttg atctcttcga ggcttggttc tgtcccctgt cctccacagt cctggatgtt 720
aatgaatagt tcatacatgt ttgttaactt acatatacct tcctttttaga atttacagaa 780
aagatcaaaa gatacacaaa acaaacaggg ctgggcggta accagggcaa cgcgggcccg 840
gggggaagtg tttccgcccc aatcccgcct tacgtgagac accgggaatg gagatgatga 900
gcaagtaacg atgaacgaac gacgaggaaa gaagcagaaa caacaagaca acacacacag 960
agaacaaaag taaaggaggg agaggagaga agacagagag agaacaaaaa gagcag 1016

```

```

<210> 40
<211> 5872
<212> DNA
<213> Homo sapien

```

```

<400> 40
ggagccgggg acggcggcac cgggcgggta gggacaagac taccgcgcgt gccccgcct 60
ggtggcagcc cctctctgcg tccctcgagg cctggcaaaa ttacattcgg ccgagagttc 120

```

acgctgggga agctctctga atgcctctga gaagcgagat ccggcgccat ctcaccgacg 180
 agcctccctt ttaccgcccc gtgcgtttcc tcagcacttt aggaactaaa gcctgtctgg 240
 gtagctccct aacaggtctt ggagctcaat cctggggcag ggaaaagggg gtctcggggg 300
 ctecccgcctc gctgtccttt ttctggacag gcagttcctt ggccacctgg tagggccgcg 360
 ttgcctggca acggcggggt ccttcttggtc tcggcgggcg tcggggcctg aggggagaaa 420
 accgcgcggg agggcgctgg gggtaggggc ggcggtccgg gaggtgggtc gcgcactgcg 480
 tggagcgcca gggcgctcca cctctgcacc tgagagaaga tgaacacggc cgaccaggcc 540
 cgggtggggc ccgcggacga cgggcctgcg ccgtctgggg agggaggagg agaggggggc 600
 ggcgaggcgg gcgggaagga gccagcagcg gacgcggccc cggggcccag cgtgcattc 660
 cgcctcatgg tgactcggcg ggagccggcc gtgaagctgc agtatgcggg gagcggcctg 720
 gaaccgctgg cttggtccga ggaccaccgc gtgtctgtgt ccacggcccg cagcatcgct 780
 gtgctggagc tcatctgcga cgtgcacaac ccgggccagg acctgggttat ccaccgcacc 840
 tcggtgcccc caccgtcaa cagctgtctc ctcaaagttg gctcaaaaac agaagttgct 900
 gagtgcagg agaaattcgc cgctccaag gacccacgg tcagtcagac tttcatgttg 960
 gatagggtgt tcaaccctga ggggaaggct ttaccacca tgagaggatt caagtacacc 1020
 agctggctct ccatgggttg cgatgcta at ggaggtgcc tcttggcagc actgaccatg 1080
 gacaatcgcc tgaccatcca ggcaaactc aacagactgc agtgggtcca gctggttgac 1140
 ctgactgaga tctatggaga acgtctttat gagaccagtt acaggctctc taaaaatgag 1200
 gccccggaag gaaatctcgg ggattttgct gaggttcaga ggagacacag catgcagacc 1260
 ccagtcagaa tggagtggtc gggcatctgt accaccacgc aggtcaagca taacaacgaa 1320
 tgccgggacg ttggcagtg gtcctgggt gtctctttg aaaacggtaa tatcgccgtg 1380
 tggcagtttc agctgccgtt tgtaggaaaa gaatccatct cttcatgcaa cacaattgag 1440
 ttaggaatca cctctcccag tgtattgttt tggtaggaat atgagcacia taatcgaaaa 1500
 atgagtggcc ttattgtggg gagtgtttt ggaccataa aaattcttcc tgtcaatctc 1560
 aaagcagtca aaggctatct cactttaagg cagcctgtta tcttgtggaa agaaatggac 1620
 cagttacctg tgcacagtat caaatgtgtg ccactttatc atccttacca gaagtgtagt 1680
 tgcagcttag tagtggctgc aagaggctct tatgtatttt ggtgtcttct tctgatctcc 1740
 aaagcagggc tgaatgttca caattcccat gtcacaggcc ttcactcact gccaatgtgc 1800
 tccatgactg cagacaaaca gaatggaaca gtctatactt gctccagtga cggaaagggtg 1860

aggcagctga	ttcccatTTT	cacagatgTt	gcattgaagt	ttgaacacca	gttgattaaa	1920
ctctcagatg	tgTTtggtc	agtgaggact	cacgggatag	cagtgaagccc	ctgcgggtgca	1980
tacctggcca	tcatcaccac	tgaggggcatg	atcaacggcc	tcacacctgt	taacaaaaaac	2040
taccaggtcc	aatttgTtac	tctcaaaacc	tttgaagaag	cagctgctca	gctcctggaa	2100
tcttcagTtc	aaaacctTTT	taagcaggta	gatttaatat	acctagtacg	ctggaagatt	2160
ttaaaagata	aacatatccc	tcaattTTTta	caagaagctt	tggaaaaaaa	gattgaaagc	2220
agtggagtca	cctattTTTtg	gcgtTTTtaag	cttttctctc	tgaggatttt	atatcagtca	2280
atgcagaaaa	ccccttcaga	agccttgTgg	aaaccacccc	atgaggactc	aaaaatctta	2340
ctagtggatt	cgctgggat	gggcaatgct	gacgatgaac	agcaggaaga	aggcacttct	2400
tccaaacagg	tggtgaagca	aggcctgcag	gagaggagca	aggaaggaga	tgtagaggag	2460
cccactgatg	actcgctccc	cacgactgga	gatgctggag	gccgtgagcc	aatggaagag	2520
aaactcctgg	aaatccaagg	gaaaatcgaa	gctgtggaga	tgcacttgac	cagggaacac	2580
atgaagcgag	tcttaggaga	agtgtatctg	cacacctgga	tcacagaaaa	cactagcatc	2640
cccacccgcg	gactctgtaa	ctttttaatg	tctgatgaag	agtatgatga	cagaactgca	2700
cgggtgctga	ttggacatat	ctcaaagaag	atgaacaaac	agactttccc	tgagcactgt	2760
agtttgTgta	aagagatctt	gccattcaca	gatcgcaaac	aggcagtctg	ttccaatggc	2820
cacatttggc	tccggtgctt	cttaacctac	cagtcctgcc	agagtttgat	atatagaagg	2880
tgTTtgctcc	atgacagcat	tgcccggcat	ccagctccag	aagatcccga	ctggattaag	2940
aggTtactgc	aaagcccctg	ccctttctgt	gattctcctg	tcttctaaat	aatcagtga	3000
gggaagatgg	aaggggcatga	tgaactctgc	catagaaaac	ttcctccagc	ctgaagagaa	3060
ggatgcactg	gaggaagccg	gaccctcacg	agtggagaga	agtccttggt	gattgtaaag	3120
agggcccctg	gagctcattt	ctgaatcgca	ctctccattt	ccagagacta	aaggatgtcc	3180
tttgaaatgg	ctggactcag	agagttggag	tcgttttgag	atgagcatta	gccccagctt	3240
tgtaaccaat	gaggaacact	tacttatTTT	taagtatctt	gacagaagca	atttgaacac	3300
agtgtcccgt	catttctaga	aacagaatgg	tctctctag	agagcttgga	taaggacctt	3360
gctgggttga	gttaggtTTT	aatccttgcc	ttggTTtgga	actgccttcg	ggctccagaa	3420
cttaaattgc	ttggtccgtg	gcatctgatg	taccaacaga	gattaaaagt	gtaaagcaac	3480
acatgggctg	atgtTTtgTt	ctcagaaaat	agctgctggT	ctgcatccct	ccattcttgt	3540
TTTTtatgca	tatggaaaac	attttcttaa	aactctatat	tcttaagttg	aagccaagac	3600
taaaatttaa	tgtgtcaa	gatctggTga	ctattataat	gaataattgt	gacttatTTT	3660

tcattctctc ctgggtcatc aggtttcctg acccaactcc ttaatccgta taaagatgtc 3720
 aaatactgta gttcacccac gccacagccc tgcttcagac ttaactgtgg tagcctagat 3780
 gagctatttg tacacagagg aaaaaaagat attttcctct tttagtaata agactttcag 3840
 tatttttaat gttgacattt ccagatgttt catttagtat ccaggggtct gtctggagac 3900
 ttctagagag ggacagctca gaagtgagac ccttgagctc tgggtgctgta aacttggtgca 3960
 attaagttga acagagcctg ggaattttctt tctctgcac agtcccttga tatttggaat 4020
 ccaggttctg cccccaaccc ctaccacccc agtggctctgt taagatgtct cagatggggc 4080
 tgggcttggt ggctcacgcc tgtaatccca gcactttggg aggctgaggc gggaggatca 4140
 cctgagggtca ggagtttgag accagcctgg ccaacatggt gaaaccccat ctctactaaa 4200
 aacacacaca caaattagcc aggcattggt gcacatgcct gtactcccag ctactcagga 4260
 ggctgaggca ggagaatcat ttgaacccc gaggtggagg ttgcagtgag ccgacattgt 4320
 gccgcttcat tccagcctgg gtgacagagt gaaactcttg tctcaaaagt aaaaaataa 4380
 taatgtttta aaatatttca atgtggagac aagctcaaaa tgaaattaga cacattccat 4440
 taccaggtta aaagaagggg aagcctgact tgatagtagt attcaggaaa aaagagttgg 4500
 cagttttatt tggccaaatt ccaatatcag ctcatggtac agcacaccgg gggaggggga 4560
 cgggaggcga gaactaaggc tttttaagaa tgtgttgatg gaagtatgtg cctagatcaa 4620
 aagaataatc ccccgact ccagtgtag atcaattact gttggaatat tgtgttcctt 4680
 tctagatatc acattttaag cagactttgg ccaagtagta cagtgtttgc aggagcagta 4740
 acaagatggt gataactttg aaaatacttc tcaaaagaaa aataaaaaag aattagggaa 4800
 gttcagtctg gagataattc agaaatacag atgataattg ttttcaaatt cttgaaggaa 4860
 atgggagaga gaataggcta attctgtatt gcttcagaaa ccaaatggaa acaattaaat 4920
 tccattagag aaacggttgg aaaatatgag gaggatttag ttcagtacga ggaagctgtt 4980
 tctaatactt tttgttggtt aaaaatacat tccgtgctg tggaaagcct glagclgcca 5040
 ggagtgttac agagggcatt cctcccttga gttgacattt gtgccaaacc ggctttgagg 5100
 gcttctccag cttttaagat gcgataatga taagatgata atcgggaaaa catccctcag 5160
 atgaaacgtt cacaggctgg ctctgaaaac tggcattcag atgattgcgg ctccccata 5220
 ctgtaggaat attgtttatg gcttaaggtt gcctcgctcc tcatctgtaa tcagtgaag 5280
 tttatccaga ggttaattac cggttttctg gtgggtatct gggaactgag gatgggagat 5340
 taactgttgt atatgaccat agtaaagcaa aagactgtta gagaatgagt aaacgttcgt 5400

```

tttctccct acagaattta cagttactct ctgtccattc cactcactac tgtcttcatc 5460
acacacacag aggcaaacgt ctgattcaga tagccagggtg tgccatgcat gcactccacc 5520
atattgtgat ctcttcgagg cttgtttctg tccccgtcc tccacagtcc tggattgtta 5580
atgaatagtt catacatggt tgttaaataa atataccttc tttaaaattt acagaaaaga 5640
tcaaagata cacaaaacaa acagggctgg gcggtaacca gggcaacgcg ggccccggggg 5700
gaagtgtttc cgccccaatc ccgcattacg tgagacaccg ggaatggaga tgatgagcaa 5760
gtaacgatga acgaacgacg aggaaagaag cagaaacaac aagacaacac acacagagaa 5820
caaaagtaaa ggaggcagag gagagaagac agagagagaa caaaaagagc ag 5872

```

```

<210> 41
<211> 757
<212> DNA
<213> Homo sapien

```

```

<400> 41
gcactgacca tataggcatg ggtcactaga gcagccgagc ggcgcagtgt gatggatgcg 60
tggtcgcggc gaggtacaga gtctgttat tttctcttc gccctatctt ggctgctttt 120
attaatgcat cagaacttta tgttataatc atatggattt atacgtaaata taagaaaaaa 180
tgtccaattt cattcagttc atatgttcta aacgtattgc tgatcattct taaatgagac 240
tccaggttta cattcttaca taaagtgcag ggatcccgaa gttagcccca aagatccctt 300
tgtcttttt cagacttgct caaatgttac cttatcagtg gggcctttcc tgaccacact 360
ttaaagacc tcaacaccca cccatgggcc ttgtccctcc tccccggtt catttttttg 420
catatactta tcaaagtga acatatgatg catttgcttt atttatcatc gatcttcact 480
cactggcatg taagctctgt gaggcaaaag attttcatct agctatcttc cagaacagtg 540
tctggcacag agaaggagct ctatgaacta tgtgttgaat gaatggctat ctttgccctg 600
taaaccocat gctactggct ctctcttcag gtggctgacc actgcacccc aagcatgctg 660
gaaagacagg agtcccaagc cctcccttct gtctactcaa gcttgggtat catgggtcata 720
gtgttctgg tgaatgtatc gtcacatcac aaaaaaa 757

```

```

<210> 42
<211> 1895
<212> DNA
<213> Homo sapien

```

```

<400> 42
agttttgcgt tgcgccttgt tgcttgctc cgctgtttgt ttgcctgtgg cttctgcctg 60
ctttttgtgg gctcgcctgt gccctgctt gccgtgtca ccttgggcgc ccgcctgggt 120

```

gctgggggtcc gcgattgcag tcctttgata gtgttagtga ggggggctgt cgtgcgtggt 180
 gtgtatggtc cgcattgggg agtcattagc atgttgagtt gactgtctcc cggtccgttt 240
 aacgtgcgtc tggaaggtag atttttgtaa atcaagtagt tggaactaaa tccaacactg 300
 ataattgccca tttcaacact gatctgaaaa gtgaattaga agctgtacaa tatcatcatt 360
 agaaattctg catatggcta ataaatattc cttttaaaat taatagagtc taaagtcttc 420
 caaatgatct ttacagatag agtgggacac tatagaattc tgattatatg atttagattt 480
 tagggatggt ttaacatttt caaaccacta gaaggacatt gggaacagaa agtaatagag 540
 ccaacgtcac gtggtaatga tcaatagtcc agttctacga ggagaacaat tttaaagctct 600
 tcactgaggc caattctgct gtattccta tctttttagg ttcttggtgg tagagtaatg 660
 agctatgacc atctctggaa tactggtag gaaaatggca gcagtaaaga aatgaggaaa 720
 atattaccta attaatagata aagttaggtc cagtacagag tctgttatt tttctctttg 780
 gccctatttg gctgctttta ttaatgcac agaactttat gtataatcat atggatttat 840
 acgtaaatta agaaaaaatg tccatttcac tcagttcata tgttctaaac gtattgctga 900
 tcattcttaa atgagactcc aggtttacat tcttacataa agtgcaggga tcccgaagtt 960
 agccccaaag atccccctgc ctttttcaga cttgctcaaa tgttacctta tcagtggggc 1020
 ctttcctgac cacactttta aaacctcaac acccaccat gggccttgct ctcttcccg 1080
 gcttcatttt ttggcatata cttatcaaat gtgaacatat gatgcatttg ctttatttat 1140
 catcgatctt cactcactgg catgtaagct ctgtgagtg aaagattttc atctagctat 1200
 cttccagaac agtgtctggc acagagaagg agctctatga atatgtgttg aatgaatgac 1260
 tatctttgcc ttgtaaacc catgctattg gctctctctt cagggtggctg accactgcac 1320
 ccaggggcat gctggaaaga caggagtccc aagccctccc ttctgctcta ctccaagctt 1380
 ttcttcttgg gtgcattgac tcaagtcagg tagtacttct ctatgtctga gcacagacgg 1440
 gctgtgttca tgtatttgta catatgtgtg aatagacaga gaaactagla gcatgggtat 1500
 gtgggggaat ccatctttta gggagagatt tatctactgt ttttgtgttt agtctcaact 1560
 cagaccaggt taagctggcc agggctcata gttttcaaag agcaacagaa aaaatctggt 1620
 tagcttacat tctaagcatg ttctctttat ctttctgaa agctatccac ttttaatttc 1680
 atctcact acagagaaaa tattatttga aactgatagc tttccagaag gttactgaaa 1740
 tcacttattt ttcagtgtct tcaactggc cattcatagt agctaacatt agccactttc 1800
 cgtgggcctg gtgctgtgtt aaagtgcctt acatatatta tttcttttaa tccgcacaat 1860

gaccccttca agtaggtact gttattattc ccaat

1895

<210> 43
 <211> 674
 <212> DNA
 <213> Homo sapien

<400> 43
 g-ccttttgtg atggatgagg cggccgaggt tgcaccggcg agggaggaag aagcgcgaag 50
 agccgttaga tcagtgccgg atgtggtgac ggcgtgggag actgcggggc cgtagctggg 120
 atctgcgagg tgcaagaaag cctttgaggt gataggtgta tgaaatgtca tcataacaga 180
 tgtaaccaa aacttgataa aaggttgtga aaaaactact aggatcacgc ggcattgtatt 240
 gagcatatag gttgctgtag atgaatgttc ttagctgtca tgtttaaaaa tacttctgct 300
 t-cgttacctc aagtgtggca tgcagcattt tggaaggaaa attgaagacg tgttcaagaa 360
 aacatgaaca gaagcaaata atgaaaatga gcattttact tgacgttgat aacatcacia 420
 taaattataa agaaaaaaaa aaaaaaaaaa gctgggggat aactcagggc tcaatagcgt 480
 gttcccgtgg tgtgtgacaa ttgggctata ctccgcggcc tccacaaatt cccccacgac 540
 caacattg-cg ggagacacca aaagagaaaa caggaagaag caaaagcaca aaggccaaag 600
 cagacaccaa gacaaacgaa gaagaaaaca ggggaacaaa caaaagagaa gacaaaaacg 660
 aaaaaaaaga gaaa 674

<210> 44
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 44
 cgaggtaatg cttcgggtgtg atgacagcgc acgttaacct cgaattcctg ggctcaggtg 60
 atcctccac ttctgcctc ctgacttggc tgaaactaca ggcacccgcc tccaccgcca 120
 gggcccagcc cacagctcct ttgacctcag tgacaggcac tcaccgtacc tgaccgcca 180
 aactgaagcc tcacatttgt cccagcacgt gcccgacacc ctcatgggct accccattga 240
 ccatgacaag tattccctct gctccagga gaaaagccta ggtcccagac ctgaccatt 300
 aaaaccaat cattccagct ttc 323

<210> 45
 <211> 568
 <212> DNA
 <213> Homo sapien

<400> 45


```

agcgggtggg ttctgggcca gccagcctg gaggaggtgt gagaggctga gccactgctc      50
agcttagcgg ggggaccact tagtgaccaa caccctgagg gaggccccag catcccctac      120
ttagcttggc agcagcagcg ggataaatag gggggcactg ctgcctgtga gccagcccag      180
catagccatg ggtgtgtggg ggaagcagac agagacaggg tcttgctccg ctgtccaggc      240
tggaatgctt cgggtgtgat acagcgcacg ttaacctcga attcctgggc tcaggtgatc      300
ctcccacttc cgcctcctga cttgctgaaa ctacaggcac ccgcctccac cgccaggccc      360
agcccacagc tcctttgacc tcagtacag gcactcacct acctgacccc caaactgaag      420
cctcactttt cccagccgtg tccacacctt ctgggctacc ccattaccat gacaagtatt      480
ccctctgctc caggagaaaa gccaggctcc agacctgacc cattaaaacc caatcattcc      540
aaaaaaaaaa aaaaaactct ccagcgct      568

```

```

<210> 46
<211> 800
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (749)..(749)
<223> a, c, g or t

```

```

<400> 46
cgtgggtcgc gcgaggtgga gagcagagct gctctacccc cacctgctcc gtgttggtccc      50
cagacccaac tcaggccagt ggacgtctgt cctagggctg cgtgtgagat cgggtgggtgc      120
agggaacaca gcaggaagct gtgcctagaa gaaggggggtc aggggtcagtg tgagatgctc      180
ctaccttcag gtaaatgccc tcattctgtt agtggccacg ttgcgacggg gctttcttgt      240
catttaccac caaaccgaac tcctagacac ataaatacac aggggatcta cccccaacaa      300
ctggcgacac taccgaacaa cggaagcagc cagggccagt agctggacag gcacaatctc      360
agcctggcag gcagcagtg caggctgcgc ggcctcgtgg tlygcgcagg gaggcaattg      420
cttctcgcaa tcttacttcc ctgtgtcttt ccactcggcc tgagcccggt ccagtctggg      480
gactctgcgc gccagccagc acaactgcgt ctgccccag gggcctgact cgttgaagga      540
atgaatgaac tgactgattt tgcagggatg ggaggctggg agactgagag gtttcattta      600
aacgggaaac gtcagatct ggtggtttca caacataaaa aaaaaaaaaa aaaaacaaaa      660
aaaaaaaaaa ggctgtgggg gtaaccacag gccaaagcgc gggttcccg gggtgaaaat      720
ttgttttccc gcccccatc tccccatnt cccgaacaa acaaaacatg aggaagaaac      780

```

aagcaaaca gacaccaaga

800

<210> 47

<211> 810

<212> DNA

<213> Homo sapien

<400> 47

gaaaaaaaga acagaaagaa aagagaaaag acaacacgac agaattatac atataggggc 60
 ctgggggtatc tagatgcatg tcgagcggcg catgtgtgat ggatgcggcg cccgggcagg 120
 tactgggaaa cacggcaggt ttggtgtggg gtgggaaaat gttgaaacca cttgtagcaa 180
 gccacaccta ttgggggaga ggtgataaga ttattaagct gaagtaaggc tgctagaatg 240
 gcctatagaa accgcacttg gacagtggat ggcagcagaa ggccatttca ttaacagatg 300
 ctgctggcag ttttgtcctg atggttgga tccctcacca agtaatttgt atctaattac 360
 aaattgtttg tatctgacac atcaatcatg attttactca gcaggcacia cagtcaagga 420
 aacacaacaa cacaccacia caaaaacaca aaaacgcgcg ggggggacac cccaggggacg 480
 acgggatgga tcccggggcg gcgaactcgg tcaccccggc gccaaaattt cccaacaaaa 540
 accatcggcg acaaacggc caaggaagca agagaaacaa gaggaacaa gaggaagaag 600
 gacacggaaa gacgaaaagg agcaagaagc acgcggacaa gagacgaaga gggaggaggg 660
 cgagaagagg agagaggagg aggaggaggg gagagacgcc aagaggggga gcgggggata 720
 gagacagggg gggaggagga gagaaaaaga ggaggaaggg ggaggggggg agagcgaagg 780
 ggaggaaaaa aggaagacgg agggcccga 810

<210> 48

<211> 818

<212> DNA

<213> Homo sapien

<400> 48

ggtcgcggcc gaggtggtgg agttgtttga aagtgcaca gcagcagtag aagcagtgg 60
 gggcgaagcc caggtgacct tcagaacgtt gcacaagaac atcagggaaa agaaccagaa 120
 tcccttaagg aaaatgttct tcatgtatga gagactaaag tgatttttct aagaaagttc 180
 agcccttctc tgacttacct ggacatttct agatacttcc aaaggaccct ctgggaatcc 240
 atagcttctc aatctggaga tgggagggtc taaggagac gctgtggggg tccctgaagt 300
 ttcttgggtt cacagaggag cccctccac ttggtgttct cccgtgagcc agcctccacc 360
 tgccaaagac actctggtcc tcgtatagt agtaatggg ctcagggcct ctccaacaac 420
 agagaggagc tgatgctgta gggctgacct cgtgacttcc tgagtctca cctgtccag 480

tgctttgaga ttcttccac ctcccatcc tcaccagccg gatcgggccc tgtgcagtgt 540
 ggtcagcatt ggggaagaa agtcatttcc tcgttggggc aggtattcct ctttatctct 600
 cattacactg gaaatgttta tttctgctgt atcatccgtg ctcaaactgt taagtctctg 660
 caggctcacc ttctctctgg aaagaatttg cttaacttga cattccatgg tgcccgttaa 720
 taaaatatat ttgaaccaa aaaaaaaaaa aaaaaaacgc tggggtaccc gggcaaaacc 780
 gtcccggtga aatgggtccc cacaccaaaa aaaaaagg 818

<210> 49
 <211> 1691
 <212> DNA
 <213> Homo sapien

<400> 49
 gctgtagctg ctctgtgaaa ggtcaggcct gcccctcatg aggctccctt tatectcta 60
 aattctgggg catctacatg acgctttcta gtccaccttt gcctccgcag atcatggcta 120
 ctaacctgac ctttgtctgt acttgagcac ccttcgcgat ttaactttca tgtagcgtcc 180
 gacttctaata atggatttga atttcttgac tggtactgct cagaacaatc accctttttg 240
 agcaggagct ggagggttatg ccgacaatga catcggagcc gtctcaacca cagggcattg 300
 ggaaagcatc ctgaagggtga acctggctag actcaccctg ttccacatag aacaaggaaa 360
 gacggtagaa gaggctgccc acctatcgtt ggggttatatg aagtcaagggt ttaaagggtt 420
 aggtggcctc atcgtgggta gcaaaacagg agactgggtg gcaaagtga cctccacctc 480
 catgccctgg gcagccgcca aggacggcaa gctgcacttc ggaattgatc ctgacgatac 540
 tactatcacc gaccttcctt aagccgctgg aagattgtat tccagatgct agcttagagg 600
 tcaagtacag tctcctcatg agacatagcc taatcaatta gatctagaat tggaaaaatt 660
 gtcccgctctg tcaattgttt tgttgctta ataagcatct gaatgtttgg ttgtggggcg 720
 ggttctgaag cgatgagaga aatgcccgtt ttaggaggat tacttgagcc ctggagggtca 780
 aagctgaggt gagccatgat tactccactg cactccagcc tgggcaacag agccaggccc 840
 tgtatcaaaa aaaaaagaaa agggaaaaaa gaaagaaagc agcagcatga tcctgacatg 900
 acagatgtgg gagaccaca gcctgcagac actgtgggct ggaagggtgg aaggaggagg 960
 ccggtggagg tggagctgtt tgaaagtga acagcagcag tagaagcagt ggtgggagaa 1020
 gccaggtga cctcagaac gttgcacaag aacatcaggg aaaagaacca gaatccttta 1080
 aggaaaatgt tcttcatgta tgagagacta aagtgtttt tctaagaaag ttcagccctt 1140
 ctctgactta cctggacatt tctagatact tccaaaggac cctctgggaa tccatagctt 1200

```

cctaactctgg agatgggagg tcataagggg gacgctgtgg gggtccttga agtttcttgg 1250
gttcacagag gagccccctc acttggtggt ctcctgtgag ccagcctcca cctgccaaag 1320
acactctggt cctcgtatag tgagtaatgg ggctcagggc ctctccaaca acagagagga 1380
gctgatgctg tagggctgac cccgtgactt cctgagtcct caccctgtcc agtgctttga 1440
gattcttccc acctcccat cctcaccagc cggatcgggc gctgtgcagt gtggtcagca 1500
tggtgaagaa agtcatttcc tcggtgggca gtattcctct ttatctctca ttacactgga 1560
aatgttatth ctgctgtatc atccgtgctc aacgttttag tctgtcaggc tcaccttctc 1620
tctggaaaga atttgcttaa cttgacattc catgtgccgc taataaaata tattttgaaa 1680
gaaaaaaaaa a 1691

```

```

<210> 50
<211> 657
<212> DNA
<213> Homo sapien

```

```

<400> 50
gggtgctata agcatgggtct taatcagctc cgaccgggcg agttgtgatg gattgggtcg 60
ggcgagggtat tgtagcatt cccattttac agtggaggaa gctgaggctc agagatgtta 120
agcaagctta gctgaatggc cacaccacca gcgaagtgcc tgagccaaga tttggactcg 180
agtccatggg accccacgc tcgtgagget gactgctctg ctcccactgg gtcccttcat 240
gaggtcgtcc cacagcactg ctagttccag ggcgagtgcc agcacatggc cccactggga 300
gccggggggc tgatttaggt ctactggaaa aagtgtcacc tttggggaca ctcaaggcac 360
aggetggttg gtttcgttgc tggattttat atactcatgc cctaaccctg tggtcctggt 420
ttctataagg ccccggggca aggtgcaagg aatttgcaaa tagggcctgt atgacttatt 480
tctaggaca cgggaagctt ttcttacctc ctttctaccc tcttctcaa cctgaactcc 540
caagtttctt ctctgaagg tctttgcaat ataagcgcca aggagcccgt gtgcgtggca 600
ggggcggtcg ggagggtatc tggagaacct tagtgaggcc tctggcctag ccagaga 657

```

```

<210> 51
<211> 1244
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (37)..(37)
<223> a, c, g or t

```

<400> 51
 tgactggagt tccatgaggg agggaaattg atgtcanagt gtcattttta agcttaagct 60
 gaaagtttat tttttaaaatt ctcatcatt catttagcat atattgattg agcatctaca 120
 atgtgccagt tgtagaattc catctcagaa gagacttgac ttgtggatgg tggaggggca 180
 gtctgtctcg gaagcagatg atgtgaaatg ttcctttcca gtctggttca cgatgtttaa 240
 cagatttgct aggtcaccac tgtgacccca agctttgctg gcagattggt ataatgattt 300
 tactgagagc cctgctatct ggtaaaggca gttaaaaagc ctgcaatctc gactcatttc 360
 cagcatgaac agactgggtcc ttgctgcttt acacaataat caaagctacc ttttatggcg 420
 tgctcgccac tcccaagcac tgggcgaagt gctttaccgg tcttccctc cgcatgcct 480
 catgccact ttagcagata gtactgttag cattcccatt ttacagtgga ggaagctgag 540
 gctcagagag gttaagcaag cttagctgaa tggccacacc accagcgaag tgctgagcc 600
 aagatttga ctcgagtcca tgggaccccc acgctcgtga gctgactgct ctgctccact 660
 gggctccttc atgaggctgt cccacagcac tgctagtcc agggcgagt ccagcacatg 720
 gccccactgg gagccggggc ctgacttagg tctactggaa aaagtgtcac ctttggggac 780
 actcaaggac aggtctggtt gtttcgttgt ggattttata tactcatgcc ctaaccctgt 840
 gttctggtt tctataaggc cccggggaag gtgcaaggaa ttgcaaata gggcctgtat 900
 gacttatttc ctaggacacg ggaagctttt cttacctct ttctaccctc ttctccaacc 960
 tgaactccca agtttcttct cctgaaggct tttgactat aagcgccaag gagccctgt 1020
 gcgtggcagg ggcggctggg aggggtatctg gagaacctta gtgaggctc tggcctagcc 1080
 agagaggcaa taagcttggg gacgttccgt tctgggttct gacgttggtt gttctgacgt 1140
 cgttgtgctc ttttgtaaga ggaatttcac accttgaga cgctttgtac atatttgtaa 1200
 tgactttatt aaaaaactga ttgtgcactt ctaaaaaaaa aaaa 1244

<210> 52
 <211> 358
 <212> DNA
 <213> Homo sapien

<400> 52
 agaatgatca tcatataggc aatgggtctc tagatcatgc tcgagcggcc cagggtgatg 60
 gatcgccggg caggttagaga agcctacctg ccctaattggc tcagggtat atccacctc 120
 cggataacc tggcccttgg gactccatca tctccttgaa gtagcactga gaatccaaga 180
 agaggctccg ctgctttttg cacatgttac tgagttacat ctcaggaaga tttttaagca 240

cgaggaagga aaatacaggc ctggccaagc agggccccct ttccggtatc atctttgttc 300

ctaataagca atcaaggggg tgggtgtgtt ggctggtaaa ggaactacta agattcag 358

<210> 53

<211> 1589

<212> DNA

<213> Homo sapien

<400> 53

tggatgtata aggcaggttt tatagaacca tttagattca acattaatgg tagagtggca 60

ttttacaaa aaaatgggtg tatttgattt ggggtctgta aggcaatttg ctaggacatg 120

ggataatcag attacacaaa atctaggcag tgaacaagtc ttcactctgg ccagagaaat 180

agcctattaa aaaatgctgt ccaggccagg cacagtggct cacacctgta atcccaggac 240

ttcgggaggc tgaggctgga ggattgcttg agttcaagac cagcctgagc aacacagtga 300

aaacccatct caaaaaaaaa aaaaaaaaca aacaaaaaaaa actgggtccag ctgggtggac 360

tttcaggatt caggactgct gggggatcaa gcccaaggat gtttttcaga gctctgtgga 420

atttaagatg ctcgaaaaga gtgtccaaga ggagtaaagg tcatgacaga atttactccc 480

aggacaatct aagttctgcc acaagtaccc gtggtgtctg tccccacaac aatggccctt 540

tcacaagctc ttgctcaca acccctgcag aagtccttca acaaaaactaa taatagacta 600

gtgaaacctc ctctcacat gggtaagagt tgcagtgggc aggtgaccct cctccctgcc 660

cccatccttt gcttctcaa gctccctgcc aacctctgga tacatcaatg ggaaggaaac 720

cagggaagca tagacctata gtacaacagg ggtgtagtga ccaactggacc tgatgaagcg 780

aatctgcctg aaatttaata cgccttttta tttcccttct gtgttaaata aaatgatctg 840

ttctgcactg agccaagcaa gttactttta aaactggtgg caccactcat ttgggacttg 900

gagactgctt ttatccagaa cctgttaaga gaacagggga tttaaatata aaggaatatg 960

aagggtggtg gccttaaaga cagtctaaaa ttaggtttta gtttgttaca ttattttgaa 1020

atattaaaca tgaaaatggt aaatcaggat gtglyagltt taagatggtg aacactgtcc 1080

tacatcagtg aggagggagg caataaagta atttcagagt aaaacagatt gaggatgaaa 1140

ccaagacaga agtgatgatt tggcttttta tgatttttgc tgtggaaatg gcagtcgtgt 1200

gacttttcac ttgcagttta aatgaaaggg tgaagagaag cctacctgcc ctaatggctc 1260

agggctatat ccacctcccg gataacctg gcccttggga ctccatcatc tcttgaagt 1320

agcactgaga atccaagaag aggtccgct gctttttgca catgttactg agttacatct 1380

caggaagatt ttttaagcac aggaaggaaa atacaggcct ggccaagcag ggtccctttt 1440

tcggtatcat ctttgttccct aataagcaat caagggggtg ggtgtgttgg ctggtaaagg 1500
 aactactaag attcagaagc ttgtagtctt cattattttg ttttacaggt taaaataaac 1560
 cacttgactg ggaaaaaaaa atggcggtc 1589

<210> 54
 <211> 554
 <212> DNA
 <213> Homo sapien

<400> 54
 tgccgaccgc gcgtagtgat ggatgagcgg cgcccgggca ggtacctggg gcttccagaa 60
 tataccaaat tcagagagcc cacattcacc cctgactgtg cttggagcaa acctgaaagt 120
 tcactcccaa gaggcttggt ccagcccatt cctttattct ggaaagtaat tcttgggtatt 180
 gaaacggaaa actgggacaa agggagcttg aggaaaacga aaacaaacaa tgaaactgga 240
 gatatgctat ttagtcttaa cccatcacag atatgctgtt tggccttaac ccatgtggaa 300
 atttgtaaac tttgtcagga tttccctgtg catggtggtg aaagtcatgt aggggaagaaa 360
 aaattcaccg tgtaatctct ttagaagtca caaaaaaaaa aaaagctggg cgttaatcag 420
 ggccataggc tgttcccggg ggtgaaatgg ttatccgcct ccacaattcc cacacaacaa 480
 gggaagccaa ggtaaggcag gaggagaaag agagagcgag ggaaaagaca aaccaaacaa 540
 caaccaaaaa cgcc 554

<210> 55
 <211> 2581
 <212> DNA
 <213> Homo sapien

<400> 55
 ccccaagaag cattcagtag ccttgtgctc ctaacttgtg accttgtgtg tggcgtggct 60
 ccccactaa gtgtaaatth gtgttttcaa gccttccgag gacgaagtgg taagatgaaa 120
 gctggcggtg ccttcgtgtt tatecgggct tctctcttcc catccttgtg atcactctgc 180
 tgacctgcc acacctggg gccatacaca tgactcctgt gcctctgcat ctactggcc 240
 atttcaaacc agttcgtgag cctgtgttct aaaaagctca tctccattaa ctgcatctca 300
 tgtcggtcac ctctgtcttt gtttcattga ctttctgat ttaacacctc tgagaatggc 360
 tttgaaagga gctacaagta atgtcttcac tggcattctt gaagtgactc ctcttggggg 420
 ttaagtccca ttggcctctg ccttccctctc ctgtgatgtt gtggttgatc tactcccagc 480
 caccgggagt agccgtttcc tccctgctcc tcttagtgct tgtgagcaaa ccttaccctt 540
 cctccctgtc tgagccagcc tcttccctgt gccctctca gcttgatgat gcttcaactt 600

agaagtgggtg gacccttctc ggggtcagct ctacctccat gtgacccagg tgagagggag	660
acagctttca aaaggaggct ttgccttcca gatgcatccc aaaggaaata atccattagt	720
agaggcattt tgtggaggag tgaagggtga agccaggggtg cagtaggggtg aggactggct	780
gggcagagag gaaactgagg cagaagatgt ggacagggac tctgcagcga ttcattggtt	840
gtcatggccg attgatacgg gcgtgtgctg agtggcagac tcataagtgc tgagctggat	900
ttctcaccca gtccttgctt ctcttgagaa cacctgcagg aagctgggaa tgaaggagag	960
aaggcaaggg taaggcctgg aagcgaggct tctctcctgt cctgcagttt attcgggtgg	1020
agaaacttga ggtagaataa aaacactgaa gggattggct gtaagggagc ccagtggtca	1080
ctgcctccc agcccatagg agtagagatc agcactcctg ggagccatgg acttcttctc	1140
ctcaatgcgg gccctggggc ggcagccagc agtggtagga aagagctctt aaccacgggt	1200
ttgggattta gggaactcag ggaactagga ttacctagt tttcagggta agtaaggaag	1260
cttgaagagc ctgttccgga agaaaagccc agaaataggc taggtgtcga cagaggtgag	1320
ggagaagcag acgttcgccc agagatggca tgggtggagcc agccccctcc acgctggctg	1380
cacctctgtg gcctgggctg ttgtggcttt accagccaag ccactttctc ccattcccat	1440
gttctcagtg atttcccaag gcatttctgg tgtcctttgg gagtgggaatc acgtgggttt	1500
tgaaaggaac tgcggtgaaa aatagaccct gacctgaggg caggggccga tggggaggcc	1560
actgagccct caggagtgtc tgaaagctca gaagattctg gtctgggctc tgcgggggga	1620
agccccataa gggagcgcct cctggtcttt ggtcagcttg acagagaggc ccagggaaa	1680
tacctggggc ttccagaata taccaaattc agaagccac attcaccct gactgtgctt	1740
ggagcaaacc tgaaagtca ctcccaagag cttgttccag cccattcctt tattctggaa	1800
ataattcttg gtattgaaag gaaaactggg acaaagggag cttgaggaaa acgaaaacaa	1860
acaagaaact ggagatatgc tatttagtct taaccctaac agatatgctg tttggcctta	1920
acctatgtgg aaatttgtaa actttgtcag gatttcctg tgcattgggtg tgaatcatg	1980
tagggaaaaa aaaattcacc gtgtaatctc tttagaagtc aaaaagaaa aagaaggtta	2040
tcttgcctcc aaaaggctgt aaaaagaata agtaaagtgg ccatagaggc ctagtcttct	2100
caggacagtg tccgggttga gagtctgtc cctgaagcgc actctgggga aaatcccttc	2160
ctgcctcct gcaggtcctt agggctccag acccagacag tcactttctc aacagagtgc	2220
cgtcaactca gcacacactc ctctcttgag cacagagccc cagagggaga agaacaaatg	2280
tgttgaaaag aatcttatta agatgtagtt aattaaaatg taatgtattg aggggaatgg	2340

aggtgtccca ggtgagggct aagtcaggca ggatttttgg ggaaggcatt gccgaaatca 2400
ccacctgagc tcaacactgg gtgcttctgg cccctccaga gttgaggtgc catccatggg 2460
aagtgcagtc cctgcctgg cccaggttca aagcgccaag tagccacaac tcagaatgcc 2520
tgcacgttcc cctcctagcc ttatatcttc tctctgggtt cctcccacga cagtttgaca 2580
t 2581

<210> 56
<211> 929
<212> DNA
<213> Homo sapien

<400> 56
gaaaaaagac ggggagaatg atactatggc ccgaatgggt cctctagatc atgctcgagc 60
ggcgcagtgat gatggattgg tgcgcggcgag gtctgtggga gcctggccta cagtgtggcc 120
ttccacgtcc accggggccc tcagcctcca gtctcagaca gccctcccag ggctggccag 180
ccagaactga tgtcaccatg cccagagccc cagctcccca tactgcagaa ctgatgatgg 240
tcattgggggg cagtggagca ggggcaggag agcaggatga gcaggaatgc aataatcaag 300
atgatccaga atgagaagga agcgaagac aaggctcagt gtgagaccag ggctcagagc 360
tcagcaaact tccacgactg gctttgaatc agaatcatta tatagcttct cagccacggc 420
ccctgggtta tacagcctta aatggccctg ccaatgctgg tcacagcatt tccctagtcc 480
tggagactcg ggaactaaaa caatcaattc ccttgagcaa taaaattatg gacagctgaa 540
caacacaaag aaaacaaaaa aaaaacggct tgggggatac ctctgtgggc aaaagcggta 600
ccccgggggt gacagtggta acccgcccc cagatccacc caaatgagag gccacaaagc 660
tggtacagct ctcccacgaa cgcgcgccc cccagagccg cgcgcgacg ccgcgacgcg 720
agcaggccga cgcgcgagag ccgctaccgc gccgccagcg ctgacgagcc aggcaggggg 780
agagcacggc gcggcaccac gacgggcgca cgcgcggcgc gcgggcggag cagcaagcgg 840
cccggaaccac ggaagaggac ggcgcggcca atgcccgcga cgcgccagac ggtagcccag 900
ggggcagcag ccgcacgccg actcgagcg 929

<210> 57
<211> 984
<212> DNA
<213> Homo sapien

<400> 57
ggcggccagc ggggtgggtga ggccatcttc cccatctacc cgaggccaga ccaaccccgc 60
atgaacccaa aggtcagga tcacgaggac ctgtaccgct actgtggcaa cctggctctg 120

ctccgggcta gcacggaccc cacagccga cactgtggga gcctggccta cagtgtggcc 180
 ttccacgtcc accggggccc tcagcctcca gtctcagaca gccctcccag ggctggccag 240
 ccagaaactga tgtcaccatg cccagagccc cagctcccca tactgcagaa ctgatgatgg 300
 tcatgggggg cagtggagca ggggcaggag agcaggatga gcaggaatgc aataatcaag 360
 atgatccaga atgagaagga agcggaagac aaggctcagt gtgagaccag ggtcagagct 420
 cagcaaactt ccacgactgg ctttgaatca gaatcatttt gcttctcage cacggccctt 480
 gggttacaca gccttaaagt gccctgccaa tgctggtcac agcattccct agtcctggag 540
 actcgggaac taaaacaatc aattcccctg agcaataaaa ttatggacag ctgaacaaca 600
 caaagaaaac aaaaaaaaaa cggtttgggg gatacctcgt gggccaaaag cggtagcccg 660
 ggggtgacag tggttaaccg gccccagat ccacccaaat gagaggccac aaagctggta 720
 cagctctccc acgaacacgc gcccgcccag agccgcgcgc cgacgcgcgc acgcgagcag 780
 gccgacgcgc gagagccgct accgcgcgc cagcgcgcgc gagccaggca gggggagagc 840
 acggcgcggc accacgacgc gcgcacgcgc ggcgcgcggc cggagcagca agcggcccgc 900
 accacggaag aggacggcgc ggccaatgcc cgcgacgcgc cagacggtag cccagggggc 960
 agcagccgca cgccgactcg agcg 984

<210> 58
 <211> 584
 <212> DNA
 <213> Homo sapien

<400> 58
 tgctcgagcg ccggcattat gatggattcg cgggcgaggt acacgagtgt gtgtgggtat 60
 gcatgtgccc actgagagag agtatgcatg tgtgtgcact acgaacacaa gttgctgtgc 120
 tggagcagga agctcgggaa acgcgagagg agagcatgca cttttagtca tccacataca 180
 ttcttatgct gtgcacacac aacatccacc cagagcctgt ctcccaaate gatggctcaa 240
 ttttctactt tcttatcgta gaccagaccc cacttagacc agccggcttc aaccgttgcc 300
 tgcacactta agcatcactt gacggacgct ctgtcaacaa cactctccaa tgcaccacgg 360
 cacacacccc tagcaccaac tacatcagac atctctgcac gatgaacttg ggcatcaata 420
 cttcatatca cactattctc atattcaata atctccttgg gctgattcca atttctgcc 480
 agccgctgag tgctcctctg cactacaacg cctcttccct actccctgc tcaatacacg 540
 cttggccgta cctcatggtc actcgctgt ctctgctgt gacc 584

<210> 59
 <211> 981
 <212> DNA
 <213> Homo sapien

<400> 59
 gaaaaccaga accacacacc gggaaaacta gagaccaaaa aactagccta taacaagaac 60
 ccaaaacaag accaaccac agaaaagact aaaaaaacag aagctgcaca cacacacata 120
 aaaagggtgtg cacacagggc acaatgaaaa aaaaaccaga aaaaacaaac ggcccctgaa 180
 agggcaccct catccctata aggcctgtaa ccggtgcacc cagagcagac aagacaagga 240
 gagtgtgcta caaacatcca cagggtgactc tgtgaccaca aaccaaggc tggactgcaa 300
 agtgctttca cagggcccca tgagggcagc tctcgtcat ttatatatttg ctgagggtct 360
 ccttgaatgg ctgcttgcac aaaagtgttt agaagactgc cgttggaatc tgaatctatc 420
 tgaaatgtaa ttccatttcc tggaaatgta cacgagtgtg tgtgggtatg catgtgcccc 480
 tgagagagag tgtgcatgtg tgtgcatacg aacacaagtt gctgtgctgg agaggaagct 540
 gggaaaggag aggagagcat gcacttttag tcatccacat acatacatat gtgtgcacac 600
 acacacatcc acccagagcc tgtctcccaa atcgatggct caaagtcact ttcttatcgt 660
 agaccagacc ccacttagac cagcggcttc aaccttgctc gcacattaag atcacttgac 720
 ggacgctctg tcaacaacac tctccaatgc accacggcac acaccctag caccaactac 780
 atcagacatc tctgcacgat gaacttgggc atcaatactt catatcacac tattctcata 840
 ttcaataatc tcttgggct gattccaatt tctgccagc cgtgagtgac tctctgcac 900
 tacaacgcc tcttctact cccctgctca atacacgctt ggccgtacct catggtcact 960
 cgctgtctc ctgctgtgac c 981

<210> 60
 <211> 657
 <212> DNA
 <213> Homo sapien

<400> 60
 tctagatgct gctcgagcgg cgcattgtga tggattggtc gggcgaggt tgaggcctcg 60
 gttcaatgag ggcccaggc aggcgacggc cacaccagc gttaaagctg catttctaca 120
 acagccacct gtgcaggccc tgcattgctt gtaacctggg gatttggctt tctgaaaagg 180
 gcaccagatg aaaaactgct cttaagcctc tgtaacgtg acacagcagt agaacgtcca 240
 aggtgttgat ccttggattc atgttgtctc aacttcagag acacacatcg actccttct 300
 gaccactggg catccatccc accaggagct cctaactctga gagctgttaa gaaagtcctc 360

caaaagtgct gactgcagaa gtaggtagct tctgctcaag atgacagAAC aagattaact 420
 tttgtattct tcagcacctt ttttattttc cattatcaca ctttgatacc ctctaaaaca 480
 tttagaacac cttttctaga acgaaaaaaaa aaaaaaagaa aaaaaaaaaa aaggctgtgg 540
 ggggtactgt gtggccatag ggtgttcccg tgggggtgaat tgtgttctcg cccaaattcc 600
 cccatttgc acaaaaagtg agcgggaaag cacggatccc tatatgtgtg gagaaac 657

<210> 61
 <211> 140
 <212> DNA
 <213> Homo sapien

<400> 61
 cgcgccgggc aggtacttct ttttatgatt ctttccacac aaaacaatca ctttgcgca 60
 ttagtatcat accccctatg acctggacaa atcggaata cagtttcaat ctctttctcc 120
 ttctctttaa ttataaaaa 140

<210> 62
 <211> 247
 <212> DNA
 <213> Homo sapien

<400> 62
 aattgtttaa tacagaaaga gccctaggat gagtgcctt tcccagcact gctgttagct 60
 gatgtgtgac tctgggcaga tcacgtaact tcatcaactt ctgttttgta cttcttttta 120
 tgattctttc cacacaaaac aatcactttg tcgcattagt atcatacccc ctatgacctg 180
 gacaaatcgg aaatacagtt tcaatctctt tctcctctc tttaatttat aaaaagcatt 240
 gatttta 247

<210> 63
 <211> 665
 <212> DNA
 <213> Homo sapien

<400> 63
 tctagtagtg catgctcgag ccgcgcgtat gtgatggatg tcgcggcgag gtaccgaaag 60
 tgagcggggc aggcacgcta gtcacatggg taatgtggca ggggtgctgtg tcaactgtgct 120
 ttggctccag ggccagagca gtctgactta gtgttgagct ccaagcatgg aacacttgga 180
 gtttggttca tttttgacca gcaagcctct aaatgtgggtg ccttgattac ccaccgcaag 240
 ggagagtggc agttgccttt ttatgacatg ttaattccag ccagggtgag caccaggtag 300
 ctctcactct cctgccaggc tcccgtgcc tgtcggtttg gcattgtcag actagatggt 360

gactcagtgt cattggaagg tgacagtttg aggttccaaa ccagttttct cctttaagcc 420
 atttcaccct caggagtgat tcttccttg tttggcattg tcagggaatg tgatgatcca 480
 ttcaaatgac ttttggagtt ccaaatagtg tttctacttt aacttccaaa aaaaaaaaaa 540
 gaaaaaaaaa aaaagggcgg ggggtaccct ggggcaatag ctgtcccggg ggtggaattg 600
 tttttcccggt cccaattccc cccatttttc acaacaatgg tgagcctggg caaaagagaa 660
 aaact 665

<210> 64
 <211> 612
 <212> DNA
 <213> Homo sapien

<400> 64
 ggggtggcga atgacgaca tataggggca tgggtctcta gatgctgctc gagcggcgcc 60
 attgtgatgg atgcgtgggc gcgccgaggc tttgtgttaa gcgtgaggca gagggagacg 120
 ttagtccaga catttccaaa gtgtgggtgg gtccgttggt tcccagagata cttttagggtg 180
 gtatgggggc tgcattaagt ggcacaaaaa tcagagcaag aaagcgatgc ccttccccaa 240
 ttctctcaat cctttttatg gccgagaaga tctcagctgg atgccaacat gttccgatgc 300
 ctgtggaaga catgccgacg tctcctctgc ctaggagca ggacttgggc ttagggcagg 360
 tggaaaaaat tccagacttt tttagcactg tttttgtttt aatggtatat ttttattggc 420
 tactttattg tttaggacaa gtggtagtgg cattcctaatt ttattggggc acctttctca 480
 tataatatag tattagcgca aaaaaaaaaa caaaaaaaaaa aaaaggcgtg gggggaaccc 540
 ggggccaaaag cctgttcccg gggtgacatt gggttcccg cccaaaattt ccacaaaatt 600
 tgggacaaat gt 612

<210> 65
 <211> 365
 <212> DNA
 <213> Homo sapien

<400> 65
 atggtgcgga tcttggccaa tggggaaatc gtgcaggatg acgacccccg agtgaggacc 60
 actaccacgc caccaagagg tagcattcct cgacagagct tcttcaatag gggccatggt 120
 gctccccag ggggtcctgg cccccgccag cagcaggcag gtgccaggct ggggtgctgt 180
 cagtccccct tcaatgacct caaccggcag ctggtgaaca tgggctttcc gcagtggcat 240
 ctcggaacc atgctgtgga gccggtgacc tccatcctgc tctcttctct gctcatgatg 300
 cttggtgttc gtggcctcct cctggttggc cttgtctacc tgggtgtcca cctgagtcag 360

cggtg

365

<210> 66
 <211> 784
 <212> DNA
 <213> Homo sapien

<400> 66
 aagtaaaaaa acaccacgag acaggtatga tatagactca tatggcgatg gtcctctaata 60
 catctcgagc ggcgacagtg tgatggatcc tgcccgggca ggtactgctg ggggggggttc 120
 ctgccccccc cgcgcatggt ggaggtaggc tggaccggc ccggggtagc ttgctgcagt 180
 ccttcgcgcc ctctcgccc tccccaccga catcatgctc cagattcctg cttggattaa 240
 cactgggcaa ccgtgggttg aatgtactct gcgctcacga actactgata taccaaacc 300
 tggctcacct tttctctgaa cgaaattaaa aaggacttgt gactgcaaaa gaacggaacc 360
 ccctagtga tgacgacgtg cctccatgca cctggccctt cagcgatata ctgattctac 420
 tgctcttgag ggctcggtt actatctgaa ccacacgtg tggcgtaact cgagtgcgtc 480
 atagctggtc atccgtgggt tgaacacttg tctatccgct tcacacattc gcacaacaag 540
 gatgacgaaa gtcaaacacg gcacgaaggg agcctttaa cggccaggga aacagcatgt 600
 gcagcttgag tgaggggtca tcacataaca agtaatatct ctaccacact gaccacacaa 660
 acacacacaa caaacacac aaaacaaaca acgcgcgggc ggaaaccccc ggggcgcaac 720
 acacacagac cgccgggggtc gcacaaggaa taccgcgctg cacaaccac aacaaacagc 780
 cgaa 784

<210> 67
 <211> 1068
 <212> DNA
 <213> Homo sapien

<400> 67
 aagtaaaaaa acaccacgag acaggtatga tatagactca tatggcgatg gtcctctaata 60
 catctcgagc ggcgacagtg tgatggatcc tgcccgggca ggtactgctg ggggggggttc 120
 ctgccccccc cgcgcatggt ggaggtaggc tggaccggc ccggggtagc ttgctgcagt 180
 ccttcgcgcc ctctcgccc tccccaccga catcatgctc cagattcctg cttggattaa 240
 cactgggcaa ccgtgggttg aatgtactct gcgctcacga actactgata taccaaacc 300
 tggctcacct tttctctgaa cgaaattaaa aaggacttgt gactgcaaaa gaacggaacc 360
 ccctagtga tgacgacgtg cctccatgca cctggccctt cagcgatata ctgattctac 420

tgctcttgag ggctctgttt actatctgaa ccaaaaagct tttgtttcgt ctccagcctc 480
 agcactttctc ttcttgtgct agaccctgtg tttttgcttt aaagcaagca aaatggggcc 540
 ccaattgtga gaactaccgc acatttccaa catactcacc tcttcccata atccctttcc 600
 aactgcatgg gaggttctaa gactggaaat tatggtgcta gattagtaaa catgacttta 660
 atgagtagtg tctccttaat cgttgggatt ttactacctt tttttcaaag aaacaattga 720
 tgagttgtat agctggtcag atacacatca tagtgacttc accagttagg taattatcat 780
 gcgaccttgt caaaccttgc tccttaatta tgttgtgcaa gtaattaaca ctgtatctca 840
 gagccaggtc ggggaatact ccttattttg gacttgtaag gcgcctttgg tgctatatac 900
 cccaagtcac tgtgtctctg agaagatctg tcaactgccg ctgcggggca acaacacaca 960
 caaggttttc gccgcgcagc acacataagg ggggtgtccaa gagagaaaga gtcccaaaca 1020
 gcaaggaccg ggtgtgtaga aggacccaaa atattttaga cacgcact 1068

<210> 68
 <211> 740
 <212> DNA
 <213> Homo sapien

<400> 68
 gactgactga tatataggcc atgggtttcta atcatccgag cggcgccagt tgtgaatgga 60
 tcgagcggcg cccgggcagg tcgtctaaca tggcggcgcc tgcggggaga gggaagcgcg 120
 ttactggag ctgcattgtg agcacaaagc gaaagccaga gggggagggc agagaccagg 180
 cagccgcccc tgactggcct ccttagggcc ccttctaaaa aaaaaaaaaa atcgagccac 240
 agcccacgat tttatgggat tcaatattat agtcacttgt agaatcaaac tactgaggta 300
 tatcttcac tcgaagtcag acctttatgt attaattgct ttacatcgca gagacagtgt 360
 aacaccttct tgtattacag gcagggggcg gtgctatgta tgtaagagaa aaggctctgg 420
 gcagagtgca ataattcaaa atgagtaaga tcagaggtgg aacggggaga aacaaattag 480
 tcgtrtggta aaaaccgagg taattacgtc tgtgactatc atgttaactt gaallllacc 540
 ttataaagta aaatgaagcc caaaaaaaaaa aaacaaaaga aaaacaaagg cggggggggc 600
 accagggggc aaacgcgggc ccccgggggg caattggttc ccggcccaca tcccacatac 660
 gccgcggacg acaccccaca caacacacac agcgcacgac ccccgacaca cgacacgcac 720
 ggcccacccg acaccgcaca 740

<210> 69
 <211> 1028
 <212> DNA

<213> Homo sapien

<400> 69

```

ttgggggtctg tccgctcggg taccatgcac tcgagacctg tcgagcgtcc cctcttcttc      60
cgtaggagag aagtgtgttt agaatcttaa ggtagagact gcctttccgg caggcccatt      120
ttgaatgggt cttegatttg ctaccccgcg gcccatgcga tgggctcccc tgcgtttccc      180
tctttgtttc aattgtttag gtgtcccgcc cgagcctcag gctcagctca atcgcgagat      240
gattttctgc agcgactttt tgttcctagg ggactgtgaa ggggcggggg actgccacga      300
tttagattcg ttgggggctg ggtcctgggg agactggaga ggatggctgg gactcggggc      360
acatggagag agcgtctaac atggcgcgcg ctgcggggag agggaagcgc tttactggag      420
ctgcattgtg agcacaaaagc gaaagcagag ggggagggca gagaccaggc agccgccccg      480
actggcctcc ttaggcccc ctctaaaaaa aaaaaaaaaat cgagccacag cccacgattt      540
tatgggattc aatattatag tcaattgtag aatcaaacta ctgaggtata tcttcatctg      600
caagtcagac ctttatgtat taattgcttt acatgcgaga gacagtgtaa caccttcttg      660
tattacaggc aggggcgtgt gctatgtatg taagagaaaa ggctctgggc agagtgaat      720
aattcaaaat gagtaagatc agaggtggaa cggggagaaa caaattagtc gtttggtaaa      780
aaccgaggta attacgtctg tgactatcat gttaacttga attttacctt ataaagtaaa      840
atgaagccca aaaaaaaaaa acaaaagaaa acaaaaggcg gggggggcac caggggccaa      900
acgcggggccc ccggggggca attggttccc ggccacatc ccacatacgc cgcggaacgac      960
acccacacac acacacacag cgacagacc cgcacacacg acacgcacgg cccacccgac     1020
accgcaca                                           1028

```

<210> 70

<211> 950

<212> DNA

<213> Homo sapien

<400> 70

```

gggggggagg aggatgaaga actcactatg ggcgaaatggg cctctagatg ctgctcgagc      60
ggcgcagtgat gaatggattc gcggccgagg tacactggcg aatattctta tttctgcaag      120
tttgcttaga ggttggcaac tgaagctgtg caggacgatt cctgttctgt aagattagtc      180
tccagttgtc agtcaagcag ttgagtgcgg tatgtctagt gccagtttc cctctccaca      240
gggtcccata ggctcttctt gttaacttta caatccgca tcagagatga gatctctgcc      300
aaggcagcaa ctgcaaggac catgtgggtc aatgttacca gcagacactc aaagcccatt      360
cccatttact tcaagcaccg cttttatagg attatcgttg agagacgtgg gtcatggttg      420

```


gtattatgag gtgagtgggc gaggacatt cacgatttct cgatctttct gaatgcatag 480
 tggctgggag tgggtggctca tgcctgtgat cccggcagtt tgcggagggc cgcaggtgga 540
 cagattgttt gacgcacagg cagttcgaga ccagccgggc gtaaccatgg gcgggacccc 600
 caatctctac caaaaaaaaa aaaaaaatac aaaagttgtc tgggtgcggg gtcgcatgcc 660
 tgtagtcccc aagttccag ctactctact tgggaggctg aggcagaaag gatcacctga 720
 gccagggaa gggccaaggc ttgcagtga cccttgattg gtggccactt gcactttgac 780
 ctttgggcaa cagaattgag aattgagacc ctgtcaaaaa aaaaaaaaaa aaaaaaaaaa 840
 aaaaggtgtg ggggtataat ccatgggcaa aaagagcgtg tccccgggg tgtgaaaatt 900
 gtgtttctcc gctcaaaatt tccccaaaa atatttggag aaaattggat 950

<210> 71
 <211> 2544
 <212> DNA
 <213> Homo sapien

<400> 71
 gggggggagg aggatgaaga actcactatg ggcgaaatggg cctctagatg ctgctcgagc 60
 ggcgagtggt gaatggattc gcggccgagg tacactggcg aatattctta tttctgcaag 120
 tttgcttaga ggttggcaac tgaagctgtg caggacgatt cctgttctgt aagattagtc 180
 tccagttgtc agtcaagcag ttgagtgcgg tatgtctagt gccagtttc cctctccaca 240
 ggtcccccata ggctcttctt gttaacttta caatccgca tcagagatga gatctctgcc 300
 aaggcagcaa ctgcaaggac catgtgggtc aatgttacca gcagacactc aaagcccatt 360
 cccatttact tcaagcaccg cttttatagg attatcgttg agagacgtgg gtcattggtg 420
 gtattatgag gtgagtgggc gaggacatt cacgatttct cgatctttct gaatgcatag 480
 tggctgggag tgggtggctca tgcctgtgat cccggcagtt tgcggagggc cgcaggtgga 540
 cagattgttt gacgcacagg cagttcgaga ccagccgggc gtaaccatgg gcgggacccc 600
 caatctctac caaaaaaaaa aaaaaaatac aaaagttgtc tgggtgcggg gtcgcatgcc 660
 tgtagtcccc aagttccag ctactctact tgggaggctg aggcagaaag atcacctgag 720
 cccaggaggt tgagtcttgc agtgaggctg agttcacacc actgtactcg agccttgatg 780
 acagaatgag actgtctcaa aaaaaaaaaa atgtccttaa gtccatgtgg acccctgact 840
 aggtttgtgc ctagacagc cgtcctctga gggcaattca ggtggtgaga ctccaggttt 900
 aaatggctc cacagaaatt tactaacct gcctttgggt ttgacctgt ataaccctt 960
 tcttctggag gtccctttgg gtggcagtag atacgggatt tgggtgtctga cagctctggg 1020

gacagatccc agctccaaat ggcagagtct ctacagatta caagccaaat acttagcact 1080
atgtgctgat cttcaggaag tcagtctata tttcataaca agtcacatgg ggataatgaa 1140
ggaatggcct aaaatgctct cagtaatatt cctgagtcac cctcagggc taggcttggg 1200
gttaggcatg gcggggaagg gagcagagct gtgtgcagag gaagatgcag ttcttgccct 1260
gtcaggggtc ctgacctgat ggcgacccat ggtggagtct tcatagtgc agacaccact 1320
gtaaaagcag atccagggtg tgcaaccctc aaagcaggtc tctcactca ccgggataga 1380
tagactattg gccgtacctg catccaccgc ttgccatggg ttcgttgtgg gtggaggata 1440
ctttcctgtc ccttggtttt gggtttgccc acgtggcttg ctctggcctt ggaatgaagc 1500
agaaacgaaa ggctgccagt tccgagccca cgtctgaagt cgccttaggt ggttcgcgg 1560
gccccgtgcg ctcccacctt caccagagg gccttctctg gtgcagccgc tgcttcttca 1620
gcctccgccc aaaaggaacg gagccccctg gccgatccgc aggctacag ggagccacag 1680
agcgcagcgg ctggaccagc gttcaagccc aagcacaggc ctgcgagaac cttgttccag 1740
ccgccgttta ggatgggtga ttaggacgcg ttgcagtggc ggtagctcac caatccagt 1800
cgtgcacccg ctcttttatt aggctataga gccagtggct cccacaggga cctgatacaa 1860
cagtgcgtta aataaggagc atattgagct ctcatgtcgt aagccagtgg agaagtccag 1920
ggctagtgtg ggggctccgg cgggggctgt ggcccccatc cgcagtggagc ctcccatgg 1980
ttcacaggtc tcagtcttcg gagccttcgg cctgcgagc ccgaacagtc cacagggcgg 2040
cgccagaccc tctttcgaac gccatcctct aaagcctcgg ctccaaccgg ttcacttct 2100
tcaggctcag gattttcaact cttctcgaat ggggggtggc ctcccccaat cttctgagtc 2160
gcaacagcat ctccctccct ccaggacctc agagccagag ctgggcgaga ggccctgacc 2220
tccggggtag ggtggaagcg tccctgtgaa ggtgcagtcc tgctcccat cccagggcg 2280
cgggcctctc ccaccctcag cgcctgtctc acctccagct gaagatgcc a gggcacctct 2340
gcttctctcc tgccctctct gcagtaccgc cgagtglyca taaaagggtt taatataggc 2400
tttgccgggc gcggggactc ccacctgtaa tcccagtacg ttgagagacc aaggcgggag 2460
gatcacttga ggccaggagt tcaaaaccag cctgggcaac aaagtgaggc ccgtctctga 2520
aaaaaaaaa aaaaaaaaaa gggt 2544

<210> 72
<211> 328
<212> DNA
<213> Homo sapien

<400> 72
 aggacgtgat gatcatatag gggaaatgggt catctagatg atgctcgagc gtgcgcagtg 60
 tgatggattt atatcttaat ttttaatcat gtcagttctt gaatgggtat ctcccttagcc 120
 tgctgatttc tttttctttc taaagaaagt ggggtggagaa attaatttag acgtttgttt 180
 gcaataaaaa gaattcattt taaaaaaaaa aaaaaaaaaa agctgtggcg gtaatcagtg 240
 gctcatagcg gttttccgtg gtgtgaaact gggtatccgg ctcaaatctt ccaacacaga 300
 catagcagag acaagttcca cgacaaaa 328

<210> 73
 <211> 482
 <212> DNA
 <213> Homo sapien

<400> 73
 tataaactgt tttaaaagaa acccatgaaa tttttaaagg atttgcatac ggttggattg 60
 agaaggatag taggagtata aatggtgcag ccactatgga aaagtctgac agtgcctcaa 120
 aagactaaac ataaaggtac cgtataccca acaattccac ccctaagtat atacccaaga 180
 aaatgaaaac atgtccacat aaaaaattgt acacagatgg tgtttgtagc agcattattt 240
 gtaataacca aaaagtagaa acaatgcaaa tgcccatcag ctgatgagtg gaaatgtaaa 300
 ctgtgatgta ttcatacaat ggaatattat ttgacaataa aaataagtgg agtgccagta 360
 catgctataa caaaaaaaaaa aaaaaaaaaa aaactttggg gttatctcat ggctcatacc 420
 tttttccctg ttttgacatt ttttttccgc ttccaatttc cacacaaatc ttgacacaaa 480
 tt 482

<210> 74
 <211> 1187
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (298)..(298)
 <223> a, c, g or t

<400> 74
 taaatcttga tataccattt gctgctacta agccatgtag taggagcttt gggactgagc 60
 ttgagtgtaa gttagaaggg ccttgaagag actgttaacc ggagcctaata gtcacttcag 120
 gaagctattg gtgaagggtt aaaccaggtg agagatatta ttggaagctg gaagaaaggt 180
 gactcttgtg acatagtagc agaaatttta gccatgctgg aaatttattt tccctggaaa 240

ccattggaaa ataagtatag ctcaactgga tgatctcact aaagagattt ctaggcantg 300
tcaaagggtgc tatctggatt cttctagccc ctatagcaaa gacaaaggag aaaggcaagc 360
aagatacaaa atttgtttcg atataaagga gccacaactt tttgggtttg aaaatacttt 420
tgtgtcattc ctaacctctc cagacagtga atgatgccta atattaagca atctgttcca 480
gacagagcca atccaggga ctctcagcaa aatgatgaag atgaaaaggc atggctataa 540
aaaggctttg ttaagaacag gaagggttaa tacactgtgt taccaacaaa caatagggcc 600
cctaaaaatc ttaatgtctc acggcagttt cacatgggaa cccaagatag aggtgggcca 660
tctgaaagag atttgtgggt gtggttttgt tctgatggag tgaattataa actgttttaa 720
aagaaacca tgaaattttt aaaggatttg catcagggtg gattgagaag gatagtagga 780
gtataaatgg tgcagccact atggaaaagt ctgacagtgc ctcaaaagac taaacataaa 840
ggtaccgtat acccaacaat tccacccta agtatatacc caagaaaatg aaaacatgtc 900
cacataaaaa attgtacaca gatgggtgtt gtagcagcat tatttgtaat aaccaaaaag 960
tagaaacaat gcaaatgccc atcagctgat gagtggaaat gtaaactgtg atgtattcat 1020
acaatggaat attatttgac aataaaaaata agtggagtgc cagtacatgc tataacaaaa 1080
aaaaaaaaaa aaaaaaaact ttgggggttat ctcatggctc ataccttttt ccctgttttg 1140
acattttttt tccgcttcca atttccacac aaatcttgac acaaatt 1187

<210> 75
<211> 759
<212> DNA
<213> Homo sapien

<400> 75
catttctctg gcacgcatgg tggcaaaggg agaagtgacc agaatcagat ttgggtggcca 60
aagggcacag ccagcatctg tgccatgect ctgatctccc cccaccatat gaagggaagg 120
ggccagctgt atccctctgg tggcttggtg gctctccttg gaatggagag gagtctgtgg 180
ctttccatct tctgcaaa lggtcggagt tgggtgtccga tagctgcaaa ctccaggcag 240
catgagcgtg ctgctgaagc taggagcatg caatttccca cagcctggag cagggatttt 300
cagactggga cctaaagtcc taggcttcat caaagtctgt gtcccatccc agttccagct 360
gcactctcag gggtttgtgt gccttactgc ttttattttc cacttgttta agtctgaggc 420
tgtagcaag ctgaattata tagcagttta gggacatgcc ctggaattag gagctggatg 480
agaatcccac ctctctcct cactcacact atgatcttgc caattacatc acttttgaaa 540
gccctgtccc ttcttctaca aaatgggttc actagtcagg gagctgaaag gagctgattc 600

taataaaagca cctagaaaaca cggctcttagt gttggcccac tctgcaggtc agaggggggtc 660
 ctaggtgctc aggaaggctt tcaaggtaag tgtggagcac cgggtgtctgc agtgagcggg 720
 gagcttttgt cctgtgattg tggcagccaa accggaagc 759

<210> 76
 <211> 943
 <212> DNA
 <213> Homo sapien

<400> 76
 actagttctc ctaatattct gggcttaaac tacactggga ggggcttgca tttcctgggc 60
 acgcatgggtg gcaaaggag aagtgaccag aatcagattt ggtggccaaa gggcacagca 120
 gcatctgtgc catgcctctg atctcccccc accatatgaa gggaaggggc cagctgtatc 180
 cctctgggtgg cttgggtggct ctccctggaa tggagaggag tctgtggctt tccatcttcc 240
 tgcaaagtgg ctggagtgg tgtccgatag ctgcaaactc caggcagcat gagcgtgctg 300
 ctgaagctag gagcatgcaa tttcccacag cctggagcag ggattttcag actgggacct 360
 aaagtcctag gcttcatcaa agtctgtgtc ccatcccagt tccagctgca ctctcagggg 420
 tttttgtgtg ccttactgct tttattttcc acttggttaa gtctgaggct gttagcaagc 480
 tgaattatat agcagtttag ggacatgccc tggaattagg agctggatgg gaatcccacc 540
 tectctctc actcaccta tgatcttgcc aattacatca cttttgaaag ccctgtccct 600
 tcttctacaa aatgggttca ctagtcaggg agctgaaagg agctgattct aataaagcac 660
 ctagaaaacac ggtcttagtg ttggcccact ctgcaggcca gggggggctc taggtgctca 720
 ggaaggcctt caaggtaagt gtggagcaca ggtgtctgca gtgagcgggg agcttttgtc 780
 ctgtgattgt ggcagcaaac ccggaagcc ttgccctgca ttccctccag gggcgggccg 840
 ctaggatcaa ttgttccttc ccctggatcc acttttaaag ccctaccac actgtcagag 900
 gggcagagcc tgggctagca gggaaggagg ccccttcaga gtg 943

<210> 77
 <211> 244
 <212> PRT
 <213> Homo sapien

<400> 77

Met Gly Ile Phe Leu Lys Ala Cys Leu Cys Ala Asn Pro Ser Pro Lys
 1 5 10 15

Gly Gly Tyr Leu Arg Trp Val Glu Pro Ser Ser His Gly Val Glu Arg
 20 25 30

Arg Pro Trp Thr His Thr Arg Glu Glu Pro Pro Lys Pro Ser Ser Ile
35 40 45

Met Trp Gln Arg Ile Gln Arg Trp Ala Tyr Leu Ser Gly Ser Ile Ala
50 55 60

Cys Leu Arg Gly Ala Asp Asn Cys Arg Thr Ser Ala Ser Gln Phe Ser
65 70 75 80

His Gln Thr Lys Ile Cys Asp Thr Asn Thr Gln Pro Gly Ala Ser Pro
85 90 95

Thr Asp Ala Arg Lys Ala Arg Arg Pro Lys Ser Pro Arg Pro Arg Pro
100 105 110

Ala Pro Ala Pro Arg Gln Ala Pro Gly Gln His Pro His Ser Thr Thr
115 120 125

Gly Ala Ala Ile Thr Thr Gly Pro Thr Ala Gln Arg Arg Glu Ala Thr
130 135 140

Asp Ala Glu Asn Lys Arg Lys Arg Thr Arg Gln Arg Thr Arg Arg Thr
145 150 155 160

Thr Gly Gln Thr Tyr Glu Gln Thr Lys Lys Arg Lys Lys Lys Thr Lys
165 170 175

Arg Asp Ala Gly Asp Asp Gly Arg Ala Arg Lys Thr Lys Arg Gln Ala
180 185 190

Lys Arg Asn Lys Gly Lys Ala Lys Arg Gly Arg Ser Lys Gln Glu Arg
195 200 205

Lys Lys Lys Gln Arg Ala Thr Lys Gln Glu His Lys Glu Lys Asp Arg
210 215 220

Lys Ala Pro Arg Gly Gln Thr Lys Glu Gly Glu Gln Asn Thr Lys Asp
225 230 235 240

Glu Arg Glu Glu

<211> 104
 <212> PRT
 <213> Homo sapien

<400> 78

Met Gly Tyr Pro Ala Ser Lys Phe Ser Pro Thr Thr Leu Glu Arg Gln
 1 5 10 15

Gln Pro Arg Lys Gln Thr Gln Arg Ala Ser Ser Gln Arg Gln Gly Asn
 20 25 30

Asn Thr Lys Ala His Arg Gln Lys Glu Gly Ala Ala Glu Gly Thr Gln
 35 40 45

Ala Thr Pro Glu Arg Gly Gln Thr Gln Ala His Gln Lys Arg Arg Glu
 50 55 60

Arg Thr Thr Gly Arg Glu Glu Gln Lys Glu Lys Arg Gln Gln Arg Glu
 65 70 75 80

Glu Gln Gly Thr Arg Gly Asp Arg Glu Arg Lys Arg Gln Pro Ala Asn
 85 90 95

Ala Gln Asp Gly Gln Gln Ala Arg
 100

<210> 79
 <211> 54
 <212> PRT
 <213> Homo sapien

<400> 79

Met Arg Val Tyr Ala Cys Ser Ser Val Tyr Ser Gln His Arg Gly Ser
 1 5 10 15

Phe Asp Val His Val Tyr Leu Tyr Tyr His Gly Tyr Val Gly Val Thr
 20 25 30

Thr Leu Thr Met Ile Phe Ser Ser Val Leu Phe Gly Tyr Gly Phe Gly
 35 40 45

Val Ile Trp Leu Leu Leu
 50

<210> 80
 <211> 76

<212> PRT
 <213> Homo sapien

<400> 80

Met Ser Glu Thr Pro Gly Gln Val Pro Gly Asp Arg Cys Ser Pro Ser
 1 5 10 15

Pro Val Lys Val Asp Ala Leu Glu Met Glu Pro Met Ser Pro Trp Glu
 20 25 30

Arg Leu Asp Cys Val Lys Leu Arg Ser Arg Asp Val Gly Arg Ser Ala
 35 40 45

His Ala Ala Tyr Ile Val Pro Cys Thr His Ile Cys Ala Arg Leu Ala
 50 55 60

Ser Asp Gly Asp Phe His Glu Leu Ile Glu Gly Thr
 65 70 75

<210> 81
 <211> 125
 <212> PRT
 <213> Homo sapien

<400> 81

Met Arg Tyr Ala Ala Ser Asn Ser Pro Gly Ser Tyr Arg Pro Lys Lys
 1 5 10 15

Val Asp Arg Ala Ala Ala Glu Glu Gln Ala Phe Asp Gly Met Pro Asn
 20 25 30

Thr Glu Gly Arg Arg Pro Ala Gly Asp Pro Gly Arg Arg Ser Pro Thr
 35 40 45

Ala Ala Gly Arg Gly Glu Gly Gln Ile Arg Gly Arg Glu Pro His Ala
 50 55 60

Arg Pro Cys Met Arg Arg Arg Arg Pro Arg Glu Arg Arg Pro Glu Ala
 65 70 75 80

Ala Arg Gln Glu Arg Pro Arg Lys Pro His Ala Pro Arg Pro Cys Ala
 85 90 95

Thr Ala Gly His Ala Arg Glu Ala Gly Arg Ser Thr Ala Gly Asp Arg
 100 105 110

Pro Arg Thr Arg Pro Ala Gln Gly Ser Arg Ala Thr Glu
 115 120 125

<210> 82
 <211> 235
 <212> PRT
 <213> Homo sapien

<400> 82

Ala Trp Ala Leu Leu Phe Leu Thr Leu Leu Thr Gln Gly Thr Gly Ser
 1 5 10 15

Trp Ala Gln Ser Ala Leu Thr Gln Ser Ala Ser Val Ser Gly Ser Pro
 20 25 30

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser His Val Gly
 35 40 45

Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro
 50 55 60

Lys Leu Ile Ile Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Ser Asn
 65 70 75 80

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser
 85 90 95

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Thr
 100 105 110

Arg Ser Thr Ser His Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
 115 120 125

Gly Gln Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser
 130 135 140

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
 145 150 155 160

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
 165 170 175

Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
 180 185 190

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
 195 200 205

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
 210 215 220

Asp Glu Asp Ser Gly Pro Leu Gln Lys Cys Ser
 225 230 235

<210> 83
 <211> 166
 <212> PRT
 <213> Homo sapien

<400> 83

Pro Pro Pro Ser Pro Pro Ser Pro Pro Ser Pro Pro Pro Ser Pro Pro
 1 5 10 15

Ser Ser Pro Pro Pro Ser Ser Pro Pro Pro Ser Pro Ser Ser Ser
 20 25 30

Ser Ser Ser Ser Ser Cys Ser Ser Ser Ser Ser Ser Ser Ser Ser
 35 40 45

Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Phe Phe Phe Leu Phe
 50 55 60

Ser Phe Leu Phe Phe Leu Arg Trp Ser Leu Ala Leu Leu Pro Arg Leu
 65 70 75 80

Glu Cys Ser Ser Thr Ile Ser Ala His Cys Asn Leu Cys Leu Leu Gly
 85 90 95

Ser Ser Asp Ser Ser Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly
 100 105 110

Ile His His Tyr Ala Gln Leu Ile Phe Val Phe Leu Gly Glu Thr Gly
 115 120 125

Phe His His Ile Gly Gln Ala Gly Leu Ala Leu Arg Thr Ile Val Ile
 130 135 140

Gln Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Tyr His Gly Val Ser
 145 150 155 160

Leu Leu Ser Arg His Gly
165

<210> 84
<211> 63
<212> PRT
<213> Homo sapien

<400> 84

Met Glu Arg Tyr Ile Pro Ile Arg Asn Pro Thr Arg Asp Asn Asn Asn
1 5 10 15

Ser Arg Glu Arg Arg Arg Glu Asn Thr Asp Glu Arg Glu Ser Arg Asp
20 25 30

Arg Arg Arg Glu Arg Asn Glu Arg Lys Arg Arg Glu Asn Glu Thr Arg
35 40 45

Glu Gln Arg Glu Gly Glu Thr Glu Ala Lys Lys Asp Lys Lys Lys
50 55 60

<210> 85
<211> 98
<212> PRT
<213> Homo sapien

<400> 85

Met Gly Phe Trp Pro Asp Thr Phe Ser Arg Gly His Ile Met Ala Ser
1 5 10 15

Val Phe Pro Gln Arg Val Cys Phe Arg Phe Cys Leu Phe Glu Met Glu
20 25 30

Ser His Phe Val Thr Gln Leu Glu Leu Gln Cys Arg Tyr Leu Gly Ser
35 40 45

Leu Gln Pro Pro Pro Pro Pro Pro Gly Phe Met Gln Phe Ser Cys Leu
50 55 60

Arg His Ser Ser Ser Trp Asp Tyr Arg His Ala Pro Ser Cys Leu Ala
65 70 75 80

Asn Phe Cys Ile Phe Ser Arg Asp Trp Val Ser Pro Tyr Trp Pro Gly
85 90 95

Trp Ser

<210> 86
 <211> 53
 <212> PRT
 <213> Homo sapien

<400> 86

Met Arg His Leu Ser Ile Cys Tyr Asp Thr His Ile His Thr His Met
 1 5 10 15

Glu Ile Asp Val Met Ile Leu Arg Asp Arg Thr Asp Asn Thr Arg Tyr
 20 25 30

Ala Ser Thr Leu Val Arg Asp Leu Leu Leu Ser Thr Leu Ala Thr Asp
 35 40 45

Ser Ser Tyr Ala Tyr
 50

<210> 87
 <211> 73
 <212> PRT
 <213> Homo sapien

<400> 87

Leu Lys Asp Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys
 1 5 10 15

Ile Gln Lys Leu Ala Gly His Ser Gly Val Cys Leu Ala Ser Gln Leu
 20 25 30

Leu Gly Arg Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly
 35 40 45

Cys Ser Glu Pro Arg Ser Cys Tyr Cys Thr Pro Ala Trp Ala Lys Glu
 50 55 60

Gln Asp Ser Ile Ser Lys Lys Lys Lys
 65 70

<210> 88
 <211> 90
 <212> PRT
 <213> Homo sapien

<400> 88

Met Lys Ile Gly Met Thr Ile Ile Asn Ile Asn Gly Gln Asn Ser Gly
 1 5 10 15

Asn Asp Ile Gly Arg Leu Lys Lys Gln Gly Ile Asn Pro Ser Gly Asp
 20 25 30

Pro Tyr Ser Glu Gln Glu Thr Lys Gly Ala Lys Asn Lys Thr Gln Lys
 35 40 45

Leu Gly Glu Gly Arg Tyr Ser Gly Glu Lys Arg Ala Arg Lys Asn Lys
 50 55 60

Glu Glu Glu Gln Gln Lys Gln Ala Gly Glu Pro Ser Thr Gly Asn Ala
 65 70 75 80

Ala Gly Gly Thr Arg Gly Ala Gln Glu Gly
 85 90

<210> 89

<211> 96

<212> PRT

<213> Homo sapien

<400> 89

Met Leu Phe Val Leu Gly Glu Gly Cys Asp Arg Leu Ala Glu Val Ser
 1 5 10 15

Leu His Phe Leu Ala Leu Ile Leu Val Leu Ser Thr Ser Gly Tyr Thr
 20 25 30

Arg Glu Arg Met Ala Cys Ser Cys Leu Cys Val Leu Ala Leu Leu Phe
 35 40 45

Gly Ser Ser Ile Met Lys Thr Trp Asp Lys Lys Ile Glu Lys Asn Asn
 50 55 60

Phe Thr Ser Leu Asn Ile Ser His Leu Asn Tyr Tyr Asp Leu Arg His
 65 70 75 80

His Phe Tyr Arg Val Thr Cys Cys Gly Ser Gln Cys Ala Leu Pro Ser
 85 90 95

<210> 90

<211> 91

<212> PRT
 <213> Homo sapien

<400> 90

Met Gly Trp Tyr Val Val Phe Ser Phe Arg Phe Met Leu Phe Val Leu
 1 5 10 15

Gly Thr Leu Val Ala Arg His Leu Leu His Ser Asp Leu Leu Thr Phe
 20 25 30

Gln Leu Ser Glu Ser Gln Leu Cys Ser His Asp Leu Pro Pro Ser Leu
 35 40 45

Arg Asp Leu Arg Ala Cys Pro Cys Met Val Ser Leu Arg Gln Pro Leu
 50 55 60

Val Met Leu Cys Ala Val Pro Ala Trp Leu Leu Ala Ser Cys Thr Val
 65 70 75 80

His Cys Met Ile Leu His Arg Val Lys His Ala
 85 90

<210> 91
 <211> 74
 <212> PRT
 <213> Homo sapien

<400> 91

Met Glu Lys Phe Glu Arg Met Asn Val Lys Ser Phe Phe Phe Phe
 1 5 10 15

Phe Glu Thr Gly Ser Leu Ser Val Thr Lys Gln Glu Cys Ser Gly Val
 20 25 30

Ile Ile Ala His Cys Ser Leu Asp Leu Pro Gly Ser Ser Asp Pro Pro
 35 40 45

Thr Leu Ala Pro Pro Val Ala Gly Thr Thr Gly Val His His His Ser
 50 55 60

Trp Leu Ile Ile Ile Leu Phe Leu Tyr Phe
 65 70

<210> 92
 <211> 92
 <212> PRT

<213> Homo sapien

<400> 92

Met Glu His Glu Leu His Pro Thr Ser Gln Ser Cys Gly Ala Arg Ala
1 5 10 15

Thr Ser Ser Ser Val Cys Val Tyr Met Val Glu Leu Ser Leu Cys Asp
20 25 30

Val Ser Leu Ser Arg Ser Pro Cys Phe Gly His Asp Asn Pro Cys Lys
35 40 45

Val Thr Arg Gly Ile Ala Asp Gly Phe Gly Cys Gly Leu Arg Val His
50 55 60

Arg His Val Leu Ala Val Leu Ile Leu Ile Gln Thr Gly Cys Thr Pro
65 70 75 80

Gln Ile Arg Arg Ser Lys Ser Met Ala Ser Val Ala
85 90

<210> 93

<211> 62

<212> PRT

<213> Homo sapien

<400> 93

Met Gly Pro Leu Thr Ala Ala Arg Arg Gly Asp Ser Val Met Asp Gly
1 5 10 15

Trp Cys Asp His Gly Ser Cys Asn Leu Glu Phe Leu Gly Thr Ser Asp
20 25 30

Pro Pro Ala Leu Ala Ser Gln Ser Arg Val Gly Thr Thr Gly Met Arg
35 40 45

Gln His Thr Trp Leu Ile Leu Leu Thr Phe Thr Phe Ser Arg
50 55 60

<210> 94

<211> 148

<212> PRT

<213> Homo sapien

<400> 94

Met Leu Gln Lys Gln Asn Thr Arg Ser Gly Gly Gly Glu His Gln Arg

1 5 10 15
 Glu Gln Pro Met Asp Lys Thr Ala Ser Leu Gly Gly Ser Cys Thr Thr
 20 25 30
 Pro Arg Ala Pro Pro Thr Phe Thr Val Arg Gly Glu Leu Thr Ala Gln
 35 40 45
 Lys Val His His Lys Ser Gln Ser Ser Ser His Arg Pro Arg Arg Ala
 50 55 60
 Ile Pro Gly Gly Gly Thr Lys Arg Lys Lys Arg Asp Ala Gln Ala Ala
 65 70 75 80
 Asp Ile Ser His Ala Arg Thr Glu His His Gln Asp Thr Arg Gln Asp
 85 90 95
 Asp Ala Glu Ala Pro His Lys Thr Pro Asn Thr Lys His Pro Arg Thr
 100 105 110
 Pro Cys Arg His Thr Ala Pro Pro Leu His Pro Pro Glu Gln Met Asn
 115 120 125
 Arg Gly Gln Ser Asn Thr Arg Arg Asn Glu Asn Asn Leu His Ser Glu
 130 135 140
 His Asn Ala Ala
 145

 <210> 95
 <211> 51
 <212> PRT
 <213> Homo sapien

 <400> 95
 Met Val Gln Val Leu His Trp Ser Leu Ser Ser Ala Ile Leu Ser Val
 1 5 10 15
 Tyr Val Gln Tyr Leu Pro Gly Asp Pro Ser His Cys Arg Gln Leu Glu
 20 25 30
 His Ala Ser Met Ile Asn Gln Trp Ala Leu Ile Asn Ser Thr Phe Leu
 35 40 45
 Cys Arg Leu

50

<210> 96
 <211> 84
 <212> PRT
 <213> Homo sapien

<400> 96

Met Arg Gln Ser Ala Thr Leu Arg Ser Ser Asp His Trp Glu Glu Arg
 1 5 10 15

Glu Ser Leu Gln Leu Leu Gly Phe Arg Leu Gln Lys Phe Leu Ala Ala
 20 25 30

Phe Ala His Trp Arg Gly Gly Glu Asp Lys Ser Ile Arg Asn Pro Met
 35 40 45

Phe Pro Ser Ser Pro Thr Glu Arg Thr Lys Glu Val Phe Thr Arg Cys
 50 55 60

Gly Thr Phe Leu Gln Leu Leu Asp Ala Asp Lys Pro Gln Ser Arg Leu
 65 70 75 80

Phe Trp Leu Gln

<210> 97
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 97

Met Lys Gln Trp Lys Ile Ser Ile Ala Gln Leu Asp Asp Leu Thr Lys
 1 5 10 15

Glu Ile Ser Arg Gln Cys Gln Arg Cys Tyr Leu Asp Ser Ser Ser Pro
 20 25 30

Tyr Ser Lys Arg Gln Lys Glu Lys Gly Lys Gln Asp Lys Lys Leu Phe
 35 40 45

Asp Ile Lys Glu Pro Gln Leu Phe Gly Phe Glu Lys Tyr Phe Phe Ser
 50 55 60

Phe Leu Thr Ser Pro Asp Ser Glu
 65 70

<210> 98
 <211> 40
 <212> PRT
 <213> Homo sapien

<400> 98

Met Gly Thr Arg Tyr Tyr Ile Leu Glu Phe Val Leu Arg Arg His Lys
 1 5 10 15

Leu Asn Ser Arg Ser Leu Cys Pro Lys Phe His Arg Leu Lys Lys Arg
 20 25 30

Ser Ser Asn Tyr Arg Ser Gly Tyr
 35 40

<210> 99
 <211> 87
 <212> PRT
 <213> Homo sapien

<400> 99

Met Phe Ser Thr Ser Ser Gln Val Cys Ala Leu Cys Pro Phe Ser Gly
 1 5 10 15

Ser Leu Glu Leu Pro Pro Ser Leu His Pro Asp Ser Phe Ala Ile Met
 20 25 30

Cys Leu Ile Ser Cys Glu Phe Thr Gly Glu Ala Ile Ser Gln Ile Asn
 35 40 45

Gly Cys Lys Cys Ser Lys Lys Lys Lys Thr Lys Lys Lys Ala Gly Gly
 50 55 60

Asn Arg Gly Gln Ser Leu Ser Pro Gly Gly His Cys Phe Pro Pro Gln
 65 70 75 80

Phe Asn Pro His Lys Pro Pro
 85

<210> 100
 <211> 31
 <212> PRT
 <213> Homo sapien

<400> 100

67

Met Ser Asn Ser His Thr Glu Gln Ala Thr Phe Leu Ser Lys Val Cys
1 5 10 15

Gly Ala Gly Arg Ala Val Gly Ala Leu Asn Ala Gly Leu Asn Arg
20 25 30

<210> 101
<211> 69
<212> PRT
<213> Homo sapien

<400> 101

Met Leu Arg Asn Cys Gly Gly Ile Gly Ala Gly Asn Lys Phe Pro Pro
1 5 10 15

Gly Thr Ala Leu Ala Pro Asp Thr Pro Ser Leu Phe Phe Phe Phe
20 25 30

Phe Phe Leu Glu Thr Met Thr Thr Ala Ala Ala Ile Leu Leu Pro Ile
35 40 45

Ser His Glu Pro Arg Leu Pro Tyr Thr Met Thr Phe His Pro His Asn
50 55 60

Arg Leu Thr Gln Pro
65

<210> 102
<211> 91
<212> PRT
<213> Homo sapien

<400> 102

Met Phe Cys Val Phe Leu Lys Ser Glu Cys Val Phe Tyr His Cys Ser
1 5 10 15

Val Asn Ala Asn Trp Val Lys Phe Val Asp Ser Gln Ile Tyr Ile Leu
20 25 30

Thr His Leu Phe Val Pro Phe Phe Leu Ser Val Ile Glu Gln Glu Val
35 40 45

Leu Lys Ser Pro Ile Thr Ser Ile Ser Leu Thr Leu Pro Phe Phe Ser
50 55 60

Leu Trp Ile Leu Asn Phe Ser Ile Tyr Phe Val Tyr Phe Glu Gly His

65

70

75

80

Ile His Leu Leu Ser Ser Cys Ile Leu Met Asn
85 90

<210> 103

<211> 38

<212> PRT

<213> Homo sapien

<400> 103

Gln Pro Gly Gln His Gly Glu Thr Pro Ser Pro Pro Lys Asp Ala Lys
1 5 10 15

Thr Ser Gln Ala Trp Arg Arg Ala Pro Ala Val Pro Gly Thr Arg Gln
20 25 30

Ala Glu Ala Gly Glu Ser
35

<210> 104

<211> 107

<212> PRT

<213> Homo sapien

<400> 104

Met Asn Tyr Ser Leu Thr Ser Arg Thr Val Glu Asp Arg Gly Gln Lys
1 5 10 15

Gln Ala Ser Lys Arg Ser Gln Tyr Gly Gly Val His Ala Trp His Thr
20 25 30

Trp Leu Ser Glu Ser Asp Val Cys Leu Cys Val Cys Asp Glu Asp Ser
35 40 45

Ser Glu Trp Asn Gly Gln Arg Val Thr Gly Lys Phe Cys Arg Glu Glu
50 55 60

Asn Glu Arg Leu Leu Ile Leu Lys Gln Ser Phe Ala Leu Leu Trp Ser
65 70 75 80

Tyr Thr Thr Val Asn Leu Pro Ile Leu Ser Ser Gln Ile Pro Thr Arg
85 90 95

Lys Pro Val Ile Asn Leu Trp Ile Asn Phe His
100 105

<210> 105
 <211> 822
 <212> PRT
 <213> Homo sapien

<400> 105

Met Asn Thr Ala Asp Gln Ala Arg Val Gly Pro Ala Asp Asp Gly Pro
 1 5 10 15

Ala Pro Ser Gly Glu Glu Glu Gly Glu Gly Gly Gly Glu Ala Gly Gly
 20 25 30

Lys Glu Pro Ala Ala Asp Ala Ala Pro Gly Pro Ser Ala Ala Phe Arg
 35 40 45

Leu Met Val Thr Arg Arg Glu Pro Ala Val Lys Leu Gln Tyr Ala Val
 50 55 60

Ser Gly Leu Glu Pro Leu Ala Trp Ser Glu Asp His Arg Val Ser Val
 65 70 75 80

Ser Thr Ala Arg Ser Ile Ala Val Leu Glu Leu Ile Cys Asp Val His
 85 90 95

Asn Pro Gly Gln Asp Leu Val Ile His Arg Thr Ser Val Pro Ala Pro
 100 105 110

Leu Asn Ser Cys Leu Leu Lys Val Gly Ser Lys Thr Glu Val Ala Glu
 115 120 125

Cys Lys Glu Lys Phe Ala Ala Ser Lys Asp Pro Thr Val Ser Gln Thr
 130 135 140

Phe Met Leu Asp Arg Val Phe Asn Pro Glu Gly Lys Ala Leu Pro Pro
 145 150 155 160

Met Arg Gly Phe Lys Tyr Thr Ser Trp Ser Pro Met Gly Cys Asp Ala
 165 170 175

Asn Gly Arg Cys Leu Leu Ala Ala Leu Thr Met Asp Asn Arg Leu Thr
 180 185 190

Ile Gln Ala Asn Leu Asn Arg Leu Gln Trp Val Gln Leu Val Asp Leu
 195 200 205

Thr Glu Ile Tyr Gly Glu Arg Leu Tyr Glu Thr Ser Tyr Arg Leu Ser
210 215 220

Lys Asn Glu Ala Pro Glu Gly Asn Leu Gly Asp Phe Ala Glu Phe Gln
225 230 235 240

Arg Arg His Ser Met Gln Thr Pro Val Arg Met Glu Trp Ser Gly Ile
245 250 255

Cys Thr Thr Gln Gln Val Lys His Asn Asn Glu Cys Arg Asp Val Gly
260 265 270

Ser Val Leu Leu Ala Val Leu Phe Glu Asn Gly Asn Ile Ala Val Trp
275 280 285

Gln Phe Gln Leu Pro Phe Val Gly Lys Glu Ser Ile Ser Ser Cys Asn
290 295 300

Thr Ile Glu Ser Gly Ile Thr Ser Pro Ser Val Leu Phe Trp Trp Glu
305 310 315 320

Tyr Glu His Asn Asn Arg Lys Met Ser Gly Leu Ile Val Gly Ser Ala
325 330 335

Phe Gly Pro Ile Lys Ile Leu Pro Val Asn Leu Lys Ala Val Lys Gly
340 345 350

Tyr Phe Thr Leu Arg Gln Pro Val Ile Leu Trp Lys Glu Met Asp Gln
355 360 365

Leu Pro Val His Ser Ile Lys Cys Val Pro Leu Tyr His Pro Tyr Gln
370 375 380

Lys Cys Ser Cys Ser Leu Val Val Ala Ala Arg Gly Ser Tyr Val Phe
385 390 395 400

Trp Cys Leu Leu Leu Ile Ser Lys Ala Gly Leu Asn Val His Asn Ser
405 410 415

His Val Thr Gly Leu His Ser Leu Pro Ile Val Ser Met Thr Ala Asp
420 425 430

Lys Gln Asn Gly Thr Val Tyr Thr Cys Ser Ser Asp Gly Lys Val Arg

445

Gly Asp Ala Gly Gly Arg Glu Pro Met Glu Glu Lys Leu Leu Glu Ile
660 665 670

Trp Lys Asp Arg Ser Pro Lys Pro Ser Leu Leu Ser Thr Gln Ala Trp
35 40 45

Val Ser Trp Ser
50

<210> 107
<211> 82
<212> PRT
<213> Homo sapien

<400> 107

Met Leu Asn Thr Cys Arg Val Ile Leu Val Val Phe Ser Gln Pro Phe
1 5 10 15

Ile Lys Phe Leu Val Thr Ser Val Met Met Thr Phe His Thr Pro Ile
20 25 30

Thr Ser Lys Ala Phe Leu His Leu Ala Asp Pro Ser Tyr Gly Pro Ala
35 40 45

Val Ser His Ala Val Thr Thr Ser Gly Thr Asp Leu Thr Ala Leu Arg
50 55 60

Ala Ser Ser Ser Leu Ala Gly Arg Thr Ser Ala Ala Ser Ser Ile Thr
65 70 75 80

Lys Gly

<210> 108
<211> 63
<212> PRT
<213> Homo sapien

<400> 108

Met Arg Val Ser Gly Thr Cys Trp Asp Lys Cys Glu Ala Ser Val Trp
1 5 10 15

Ala Val Arg Tyr Gly Glu Cys Leu Ser Leu Arg Ser Lys Glu Leu Trp
20 25 30

Ala Gly Pro Trp Arg Trp Arg Arg Val Pro Val Val Ser Ala Lys Ser
35 40 45

Gly Gly Arg Lys Trp Glu Asp His Leu Ser Pro Gly Ile Arg Gly
50 55 60

<210> 109

Thr Gly Gly Glu Glu Glu Arg Lys Arg Gly Gly Arg Gly Arg Gly Gly
115 120 125

Glu Arg Arg Gly Gly Lys Lys Glu Asp Gly Gly Pro Glu
 130 135 140

<210> 111
 <211> 99
 <212> PRT
 <213> Homo sapien

<400> 111

Met Gly Arg Trp Glu Glu Ser Gln Ser Thr Gly Gln Gly Glu Asp Ser
 1 5 10 15

Gly Ser His Gly Val Ser Pro Thr Ala Ser Ala Pro Leu Cys Cys Trp
 20 25 30

Arg Gly Pro Glu Pro His Tyr Ser Leu Tyr Glu Asp Gln Ser Val Phe
 35 40 45

Gly Arg Trp Arg Leu Ala His Gly Arg Thr Pro Ser Gly Gly Gly Ser
 50 55 60

Ser Val Asn Pro Arg Asn Phe Lys Glu Pro His Ser Val Ser Leu Met
 65 70 75 80

Thr Ser His Leu Gln Ile Arg Lys Leu Trp Ile Pro Arg Gly Ser Phe
 85 90 95

Gly Ser Ile

<210> 112
 <211> 105
 <212> PRT
 <213> Homo sapien

<400> 112

Gly Ala Gly Gly Tyr Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr
 1 5 10 15

Gly His Gly Glu Ser Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu
 20 25 30

Phe His Ile Glu Gln Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser
 35 40 45

Leu Gly Tyr Met Lys Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val
50 55 60

Val Ser Lys Thr Gly Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met
65 70 75 80

Pro Trp Ala Ala Ala Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro
85 90 95

Asp Asp Thr Thr Ile Thr Asp Leu Pro
100 105

<210> 113
<211> 42
<212> PRT
<213> Homo sapien

<400> 113

Met Ala Thr Pro Pro Ala Lys Cys Leu Ser Gln Asp Leu Asp Ser Ser
1 5 10 15

Pro Trp Asp Pro His Ala Arg Glu Ala Asp Cys Ser Ala Pro Thr Gly
20 25 30

Ser Leu His Glu Val Val Pro Gln His Cys
35 40

<210> 114
<211> 51
<212> PRT
<213> Homo sapien

<400> 114

Met Leu Leu Ser Tyr Ile Ser Gly Arg Phe Leu Ser Thr Arg Lys Glu
1 5 10 15

Asn Thr Gly Leu Ala Lys Gln Gly Pro Leu Phe Gly Ile Ile Phe Val
20 25 30

Pro Asn Lys Gln Ser Arg Gly Trp Val Cys Trp Leu Val Lys Glu Leu
35 40 45

Leu Arg Phe
50

10076747-001100

<210> 115
 <211> 118
 <212> PRT
 <213> Homo sapien

<400> 115

Met Asp Glu Arg Arg Pro Gly Arg Tyr Leu Gly Leu Pro Glu Tyr Thr
 1 5 10 15

Lys Phe Arg Glu Pro Thr Phe Thr Pro Asp Cys Ala Trp Ser Lys Pro
 20 25 30

Glu Ser Ser Leu Pro Arg Gly Leu Phe Gln Pro Ile Pro Leu Phe Trp
 35 40 45

Lys Val Ile Leu Gly Ile Glu Thr Glu Asn Trp Asp Lys Gly Ser Leu
 50 55 60

Arg Lys Thr Lys Thr Asn Asn Glu Thr Gly Asp Met Leu Phe Ser Leu
 65 70 75 80

Asn Pro Ser Gln Ile Cys Cys Leu Ala Leu Thr His Val Glu Ile Cys
 85 90 95

Lys Leu Cys Gln Asp Phe Pro Val His Gly Gly Glu Ser His Val Gly
 100 105 110

Lys Lys Lys Phe Thr Val
 115

<210> 116
 <211> 87
 <212> PRT
 <213> Homo sapien

<400> 116

Met Leu Glu Arg Arg Ser Val Met Asp Trp Ser Arg Arg Gly Leu Trp
 1 5 10 15

Glu Pro Gly Leu Gln Cys Gly Leu Pro Arg Pro Pro Gly Pro Ser Ala
 20 25 30

Ser Ser Leu Arg Gln Pro Ser Gln Gly Trp Pro Ala Arg Thr Asp Val
 35 40 45

Thr Met Pro Arg Ala Pro Ala Pro His Thr Ala Glu Leu Met Met Val

50

55

60

Met Gly Gly Ser Gly Ala Gly Ala Gly Glu Gln Asp Glu Gln Glu Cys
65 70 75 80

Asn Asn Gln Asp Asp Pro Glu
85

<210> 117

<211> 72

<212> PRT

<213> Homo sapien

<400> 117

Met His Val Pro Thr Glu Arg Glu Tyr Ala Cys Val Cys Thr Thr Asn
1 5 10 15

Thr Ser Cys Cys Ala Gly Ala Gly Ser Ser Gly Asn Ala Arg Gly Glu
20 25 30

His Ala Leu Leu Val Ile His Ile His Ser Tyr Ala Val His Thr Gln
35 40 45

His Pro Pro Arg Ala Cys Leu Pro Asn Arg Trp Leu Asn Phe Leu Leu
50 55 60

Ser Tyr Arg Arg Pro Asp Pro Thr
65 70

<210> 118

<211> 48

<212> PRT

<213> Homo sapien

<400> 118

Met Asn Pro Arg Ile Asn Thr Leu Asp Val Leu Leu Leu Cys His Val
1 5 10 15

Asn Arg Gly Leu Arg Ala Val Phe His Leu Val Pro Phe Ser Glu Asp
20 25 30

Gln Ile Pro Arg Leu Gln Ser Met Gln Gly Leu His Arg Trp Leu Leu
35 40 45

<210> 119

<211> 19

199706247.021302

<212> PRT
 <213> Homo sapien

<400> 119

Met Thr Trp Thr Asn Arg Lys Tyr Ser Phe Asn Leu Phe Leu Leu Leu
 1 5 10 15

Phe Asn Leu

<210> 120
 <211> 60
 <212> PRT
 <213> Homo sapien

<400> 120

Met Thr Phe Gly Val Pro Asn Ser Val Ser Thr Leu Thr Ser Lys Lys
 1 5 10 15

Lys Lys Arg Lys Lys Lys Lys Gly Arg Gly Val Pro Trp Gly Asn Ser
 20 25 30

Cys Pro Gly Gly Gly Ile Val Phe Pro Val Pro Ile Pro Pro Ile Phe
 35 40 45

His Asn Asn Gly Glu Pro Gly Gln Lys Arg Lys Thr
 50 55 60

<210> 121
 <211> 147
 <212> PRT
 <213> Homo sapien

<400> 121

Met Leu Leu Glu Arg Arg His Cys Asp Gly Cys Val Val Ala Pro Arg
 1 5 10 15

Leu Cys Val Lys Arg Glu Ala Glu Gly Asp Val Ser Pro Asp Ile Ser
 20 25 30

Lys Val Trp Val Gly Pro Leu Val Pro Glu Ile Leu Leu Gly Gly Met
 35 40 45

Gly Pro Ala Leu Ser Gly Thr Lys Ile Arg Ala Arg Lys Arg Cys Pro
 50 55 60

80

Ser Pro Ile Leu Ser Ile Leu Phe Met Ala Glu Lys Ile Ser Ala Gly
65 70 75 80

Cys Gln His Val Pro Met Pro Val Glu Asp Met Pro Thr Ser Pro Leu
85 90 95

Pro Arg Glu Gln Asp Leu Gly Leu Gly Gln Val Glu Lys Ile Pro Asp
100 105 110

Phe Phe Ser Thr Val Phe Val Leu Met Val Tyr Phe Tyr Trp Leu Leu
115 120 125

Tyr Cys Leu Gly Gln Val Val Val Ala Phe Leu Ile Tyr Trp Gly Thr
130 135 140

Phe Leu Ile
145

<210> 122
<211> 121
<212> PRT
<213> Homo sapien

<400> 122

Met Val Arg Ile Leu Ala Asn Gly Glu Ile Val Gln Asp Asp Asp Pro
1 5 10 15

Arg Val Arg Thr Thr Thr Gln Pro Pro Arg Gly Ser Ile Pro Arg Gln
20 25 30

Ser Phe Phe Asn Arg Gly His Gly Ala Pro Pro Gly Gly Pro Gly Pro
35 40 45

Arg Gln Gln Gln Ala Gly Ala Arg Leu Gly Ala Ala Gln Ser Pro Phe
50 55 60

Asn Asp Leu Asn Arg Gln Leu Val Asn Met Gly Phe Pro Gln Trp His
65 70 75 80

Leu Gly Asn His Ala Val Glu Pro Val Thr Ser Ile Leu Leu Leu Phe
85 90 95

Leu Leu Met Met Leu Gly Val Arg Gly Leu Leu Leu Val Gly Leu Val
100 105 110

20250714 09:03

Tyr Leu Val Ser His Leu Ser Gln Arg
115 120

<210> 123
<211> 129
<212> PRT
<213> Homo sapien

<400> 123

Met Glu Ala Arg Arg His Ala Leu Gly Gly Ser Val Leu Trp Gln Ser
1 5 10 15

Gln Val Leu Phe Asn Phe Val Gln Arg Lys Gly Glu Pro Gly Phe Gly
20 25 30

Ile Ser Val Val Arg Glu Arg Arg Val His Ser Asn His Gly Cys Pro
35 40 45

Val Leu Ile Gln Ala Gly Ile Trp Ser Met Met Ser Val Gly Arg Ala
50 55 60

Arg Arg Ala Arg Arg Thr Ala Ala Ser Tyr Pro Gly Pro Val Arg Ala
65 70 75 80

Tyr Leu His His Ala Arg Gly Gly Gln Glu Pro Pro Pro Ala Val Pro
85 90 95

Ala Arg Ala Gly Ser Ile Thr Leu Ser Pro Leu Glu Met Ile Arg Gly
100 105 110

Pro Ser Pro Tyr Glu Ser Ile Ser Tyr Leu Ser Arg Gly Val Phe Leu
115 120 125

Leu

<210> 124
<211> 74
<212> PRT
<213> Homo sapien

<400> 124

Met Lys Ile Tyr Leu Ser Ser Leu Ile Leu Gln Val Thr Ile Ile Leu
1 5 10 15

Asn Pro Ile Lys Ser Trp Ala Val Ala Arg Phe Phe Phe Phe Arg

14076747-021300

20

25

30

Gly Gly Pro Lys Glu Ala Ser Gln Gly Arg Leu Pro Gly Leu Cys Pro
 35 40 45

Pro Pro Leu Ala Phe Ala Leu Cys Ser Gln Cys Ser Ser Ser Lys Arg
 50 55 60

Ala Ser Leu Ser Pro Gln Pro Pro Pro Cys
 65 70

<210> 125

<211> 94

<212> PRT

<213> Homo sapien

<400> 125

Met His Ser Gly Trp Glu Trp Trp Leu Met Pro Val Ile Pro Ala Val
 1 5 10 15

Cys Gly Gly Pro Gln Val Asp Arg Leu Phe Asp Ala Gln Ala Val Arg
 20 25 30

Asp Gln Pro Gly Val Thr Met Gly Gly Thr Pro Asn Leu Tyr Gln Lys
 35 40 45

Lys Lys Lys Asn Thr Lys Val Val Trp Val Arg Gly Arg Met Pro Val
 50 55 60

Val Pro Lys Phe Pro Ala Thr Leu Leu Gly Arg Leu Arg Gln Lys Gly
 65 70 75 80

Ser Pro Glu Pro Arg Glu Gly Pro Arg Leu Ala Val Ser Pro
 85 90

<210> 126

<211> 114

<212> PRT

<213> Homo sapien

<400> 126

Met Val Ser Leu Trp Val Glu Asp Thr Phe Leu Ser Pro Gly Phe Gly
 1 5 10 15

Phe Ala His Val Ala Cys Ser Gly Leu Gly Met Lys Gln Lys Arg Lys
 20 25 30

Leu Ser His Gly Ser Tyr Leu Phe Pro Cys Phe Asp Ile Phe Phe Pro
35 40 45

Met	Lys	Pro	Arg	Thr	Leu	Gly	Pro	Ser	Leu	Lys	Ile	Pro	Ala	Pro	Gly
1				5					10					15	
Cys	Gly	Lys	Leu	His	Ala	Pro	Ser	Phe	Ser	Ser	Thr	Leu	Met	Leu	Pro
			20					25					30		
Gly	Val	Cys	Ser	Tyr	Arg	Thr	Pro	Thr	Pro	Ala	Thr	Leu	Gln	Glu	Asp
		35					40					45			
Gly	Lys	Pro	Gln	Thr	Pro	Leu	His	Ser	Lys	Glu	Ser	His	Gln	Ala	Thr
	50					55					60				
Arg	Gly	Ile	Gln	Leu	Ala	Pro	Ser	Leu	His	Met	Val	Gly	Gly	Asp	Gln
65					70					75					80
Arg	His	Gly	Thr	Asp	Ala	Gly	Cys	Ala	Leu	Trp	Pro	Pro	Asn	Leu	Ile
				85					90					95	
Leu	Val	Thr	Ser	Pro	Phe	Ala	Thr	Met	Arg	Ala	Gln	Glu	Met		
			100					105					110		